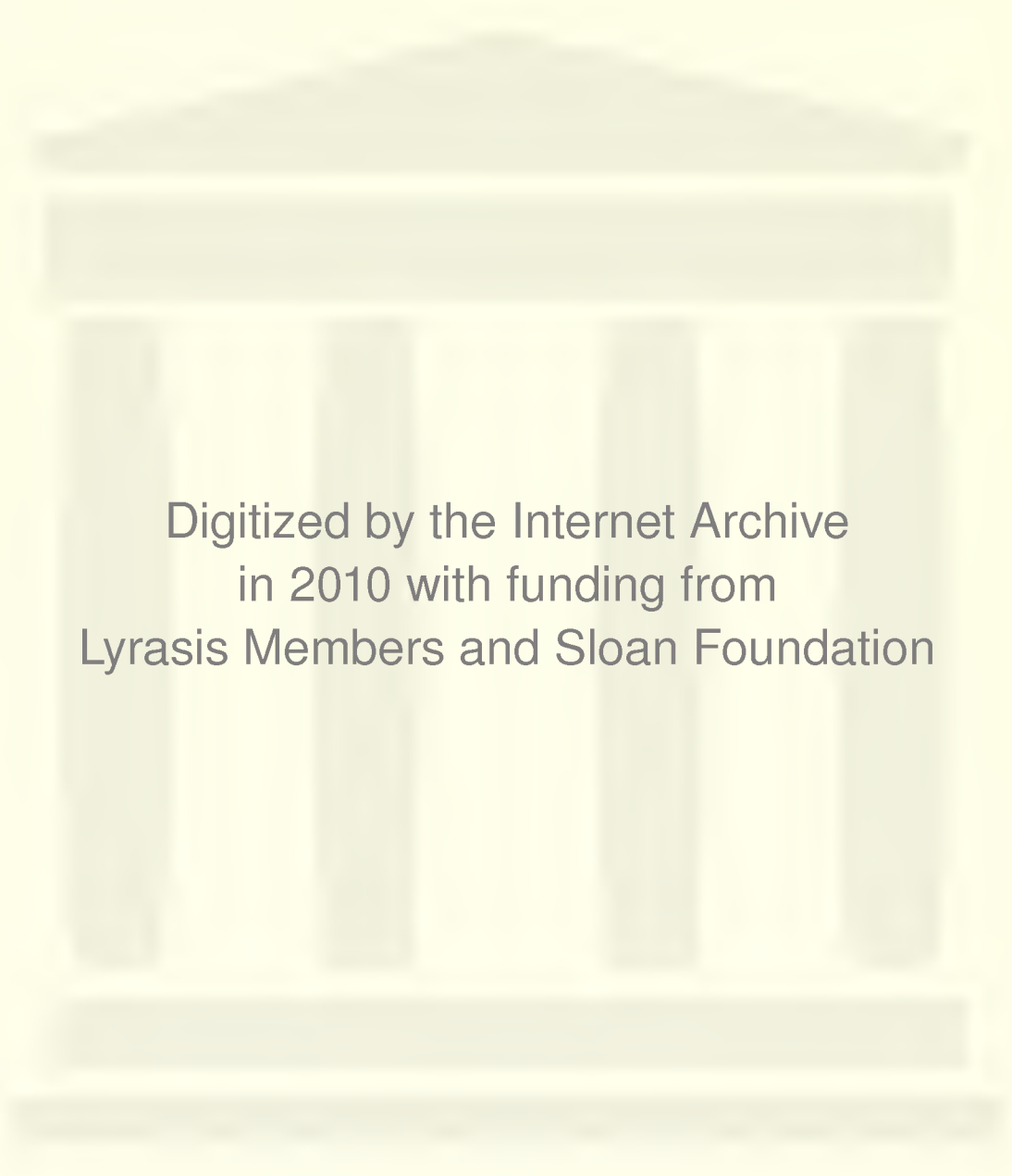




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**TOWSON STATE
UNIVERSITY
78-79 CATALOG**

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The University

PHILOSOPHY

The Towson program rests fundamentally on the idea that a liberal education is indispensable for the preservation of a free society. Secondly, it rests on the belief that the means of acquiring special competence should be available at the undergraduate level in a tax-assisted multipurpose university.

These two principles go hand in hand. If it is vital that all students take on the mental habits and values necessary to thoughtful citizenship, it is also important that every student be able to acquire a sense of professional direction. The curriculum is designed, then, so that all students will pursue those studies — the traditional arts and sciences — that promote critical thought about our environment; and so that each student may discover and cultivate a particular intellectual or occupational bent.

GOALS

I. By far the highest priority of the University shall be to provide a sound liberal arts and sciences education for all students regardless of their major or occupational ambitions.

Guidelines for achieving this would include the following:

1. General Education Requirements shall provide the student with a coherent introduction to the basic concerns and concepts of the arts and sciences. The courses shall be designed to serve a general education purpose rather than to serve as introductions for majors. Interrelationships between the arts and sciences courses in the General Education Requirements shall be a goal of design and planning and shall be explicitly stressed in the classroom.
2. The number of hours required for a major in a discipline shall not become so large as to interfere with the student's exposure to other disciplines and ultimate attainment of a liberal arts and science education. **EVERY STUDENT SHOULD TAKE AT LEAST 60 HOURS OF COURSE WORK OUTSIDE THE MAJOR.**
3. Majors will be encouraged to take courses in areas outside their major with the accompanying effort on the part of faculty in course design and evaluation to make it possible for non-majors to compete effectively in upper level courses outside their major.
4. Some experience in interdisciplinary courses at upper and/or lower levels shall be available and encouraged.
5. Students will be encouraged to study a foreign language for the benefits such study offers in understanding language itself, in understanding other cultures, and in mental discipline.
6. A definition of undergraduate curriculum shall be formulated to serve as a guide to departments and university committees in order to avoid the creation of specialized courses that more properly belong at the graduate level and that would subvert the achievement of a liberal arts and sciences education.
7. Literacy defined as the ability to read, write, and speak English intelligently must be achieved by the student and stressed in all the courses in the curriculum in assignments and evaluation. Similarly, basic mathematical and basic scientific skills and concepts must be

mastered by the student. Standards of literacy in these areas applied without exception will be established and maintained throughout the entire curriculum.

8. An effective program of advisement shall be established to ensure that the student has the benefit of faculty advice on how to achieve a sound and coherent liberal education. The concern of the adviser will be with the student's total university experience, not just with the courses in his/her major.
9. To find out how effective our mutual efforts have been in providing a liberal arts and sciences education, systematic procedures should be developed and implemented to assess and evaluate student achievement.

II. The campus environment shall provide ideal conditions for learning — learning between student and teacher, student and student, teacher and teacher, and between these and the staff, alumni, and citizens concerned with intellectual and professional pursuits.

Guidelines for achieving this would include the following:

1. New ways have to be found to provide our students with a sense of community and common purpose in the learning process, to revive the sense of excitement in grappling with ideas or pursuing a problem. Special attention needs to be devoted to the commuter student who only attends classes and has no informal opportunities for learning on campus.
2. Faculty learning would be enhanced by more and better interaction with the students as described above, but faculty also need to have more contact with faculty in other departments. The exchange of ideas, the increased understanding of the merits and problems of other disciplines, the enlarged perspective on the university as a whole, and a greater sense of community would be only a few of the benefits of such communication. Various possibilities for faculty interaction shall be studied and implemented.
3. The working conditions for faculty in terms of office space and number of students have a considerable influence on their ability to be effective. Providing adequate office space, i.e., private offices, and achieving a more favorable faculty/student ratio shall be high priorities in building and remodeling design and budget allocations.
4. Community resources relevant to the academic pursuits of the University will be sought and utilized in the academic program.

III. The University shall support programs leading to the development of skills and knowledge useful in future employment.

Guidelines for achieving this would include the following:

1. The academic preparation of the student should represent a balance between preparation in the liberal arts and training for a career. To achieve this balance the student will require careful advisement from both his/her academic major field and from other related disciplines. Courses designed to contribute to career development should supplement liberal arts preparation and should be taken after the student has carefully considered his/her interests and abilities.

IV. Excellence in student, faculty, and administrative performance shall be encouraged by relevant, constructive evaluation and recognition.

Guidelines for achieving this would include the following:

1. Reasonably uniform expectations of student performance, in terms of amount of work in relation to credit hours and level of performance in relation to grades, shall be defined and maintained. Other methods of evaluation and reward will also be studied and considered.
2. Student evaluations of faculty will be under continual review to determine their value as measures of excellence.
3. Promotion and tenure criteria for faculty shall be defined and applied with reasonable consistency. Additional means of reward will be developed.
4. Administrative performance shall be subject to faculty and student evaluation with the proviso indicated in 2.
5. The University shall strive to cultivate in all members of the University community the ability to recognize excellence and to respect it wherever it is found.

V. The University shall provide equal educational opportunity for the population it serves.

Guidelines for achieving this would include the following:

1. The University shall strive to eliminate discrimination based on race, sex, religion, and age at all levels of university life with special attention given to:
 - (a) Liberal admissions policies with concomitant compensatory education if needed.
 - (b) Academic and career advising that is free of irrelevant stereotypes.
 - (c) A curriculum that makes every attempt to represent minority groups and women equitably.
 - (d) Classroom presentations that are free of gratuitous derogation of race or sex.
 - (e) Equal opportunity recruitment, hiring, and advancement.
2. The University shall eliminate the distinction between full- and part-time students in the cost of education for the student and in enrollment in day and evening classes.
3. The University shall continue to develop programs and policies that respond to the emerging continuing education needs and interests of the population served by the University. Such programs and policies will be consistent with the liberal arts and sciences mission of the University (See I).

VI. The University shall maintain its autonomy from unreasonable influence by outside governing bodies and special interest groups.

Guidelines for achieving this would include the following:

1. While it is reasonable that the governing boards and agencies of the State of Maryland have the right to establish policies for the University as a whole, the internal decision on how to implement those policies should remain the prerogative and responsibility of the University.
2. Similarly, once the total budget for the University has been determined, the internal fiscal decisions should remain the prerogative and responsibility of the University.
3. While cooperative ventures with individuals or groups

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with special interests may often be of mutual benefit, the University shall retain the right to reject such support if it is judged to be harmful to the academic interests of the University.

HISTORY

Towson State University, the oldest and largest of Maryland's public colleges, traces its history back to 1865. At that time the General Assembly of Maryland established a statewide public school system and authorized the first state teacher training institution, The Maryland State Normal School, later known as the State Teachers College at Towson, then in 1963 as Towson State College, and since July 1, 1976 as Towson State University.

Formally opened in Baltimore on January 15, 1866, the school was then the only institution devoted exclusively to the preparation of teachers for the public schools of Maryland.

The School occupied four different locations in the city of Baltimore before moving to its present suburban location in 1915.

In 1946 the arts and sciences program was introduced at Towson. Beginning as a two-year transfer program, it was extended to a four-year, degree-granting program in 1960.

A graduate program for elementary school teachers leading to the Master of Education degree was inaugurated in 1958.

In 1963 the University was authorized, by action of the Legislature, to expand its offering in the arts and sciences while maintaining a strong program in teacher education and to change its name to Towson State College.

In 1965 the University began expansion of its graduate program to include offerings for guidance counselors and secondary school teachers.

In 1966 the University completed 100 years of service to the state, having graduated more than 12,000 students during its first century. In the past decade, the number of degree recipients has doubled. Towson State has now graduated 29,680 students, 2,570 of them having received advanced degrees.

School year 1976-77, Towson State University had a retention rate of 79%.

ACCREDITATION

Towson State University is accredited by the Middle States Association of Colleges and Secondary Schools, the Maryland State Board of Education and the National Council for the Accreditation of Teacher Education. The University is a member of the American Council on Education and is approved by the American Association of University Women.

PRIVACY RIGHTS OF PARENTS AND STUDENTS

Towson State University is in compliance with Section 513 (Protection of the rights and privacy of parents and students) and Section 514 (Protection of pupil rights) of Title V — Education Administration of the Education Amendments of 1974.

NON-DISCRIMINATION IN EDUCATION AND EMPLOYMENT

Towson State University is in compliance with Titles VI and VII of the Civil Rights Act of 1964, the Equal Pay Act of 1963, Title IX of the Education Amendments of 1972, Titles VII and VIII of the Public Health Service Act, Executive Order 11246/11375 and section 504 of the Re-

habilitation Act of 1973. In accordance with these laws, the college does not discriminate against any individual for reasons of race, color, religion, national origin, or sex or condition of handicap in the admission of students, educational programs and activities, hiring of faculty and staff, or any terms and conditions of employment. The University is also in compliance with Federal regulations regarding prohibition of discrimination on the basis of age, conditions of handicap, and veteran status. Information on these laws and copies of the Affirmative Action Plan of Towson State University are available from the Affirmative Action Officer.

BOARD OF TRUSTEES

The University is governed by an eleven-member Board of Trustees — ten members appointed by the Governor for six-year terms — and a student member appointed by the Governor for a one-year term. This same board also governs the five other state colleges and universities.

THE CAMPUS AND FACILITIES

The University is situated on a campus of over 324 acres located a mile and one-half beyond the northern border of the city of Baltimore on beautifully rolling wooded grounds.

Within an eight-mile radius of the campus are all the cultural advantages of the city of Baltimore — the Peabody Conservatory of Music and Library, the Enoch Pratt Free Library, the Walters Art Gallery, the Baltimore Museum of Art, and the many theaters and other cultural centers necessary for a well-rounded college experience.

Campus buildings and facilities give excellent support to the various University programs.

Academic Buildings

STEPHENS HALL — The original academic building, erected in 1915, houses a remodeled public performance auditorium, three floors of classrooms, and the departments of mathematics and business administration. It also houses the Maryland State College Information Center and computer science and statistics laboratories. This distinctive Jacobean building has long been a landmark in the Baltimore area.

VAN BOKKELEN HALL — A classroom building for the department of communication arts and sciences, this facility contains therapy rooms for speech pathology and audiology majors, as well as a production studio for rehearsing radio broadcasts.

LINTHICUM HALL — Completed in 1967, it is one of the largest classroom buildings on campus and houses the departments of English, modern languages, history, philosophy, geography, sociology, political science, economics and associated offices.

SMITH SCIENCE HALL — This building was first occupied in the fall of 1965 and houses the departments of biology, chemistry, physics and science education offices. A new \$6.2-million wing contains over 120,000 square feet of floor space and \$1.3-million in equipment. The structure includes plant growth chambers, greenhouses, reach-in environmental chambers, an aquarium room with aquatron, and animal rooms with controlled environmental areas. The Watson-King Planetarium is on the top floor.

BURDICK HALL — The health education building, completed in 1968, houses the departments of nursing, occupational therapy and health sciences, and it contains

facilities for intramural sports, an olympic size swimming pool, classrooms and various training and dressing rooms.

TOWSON CENTER — This 100 acre physical education complex, constructed at a cost of approximately \$12-million, houses the physical education department and includes an arena, an all-weather track, 10 tennis courts with lighting, and separate fields for football, lacrosse, baseball, soccer, field hockey and softball. The building includes an arena with 165,000 square feet of floor space and six classrooms, a research laboratory, a curriculum center, student and faculty lounges, indoor archery and golf ranges, weight rooms, training areas and facilities, fencing, wrestling and gymnastic rooms, open teaching areas, five men's varsity locker rooms, four women's varsity locker rooms, four men's visiting team rooms, three women's visiting team rooms, six handball courts, four squash courts and two doubles squash courts, and a 60 foot long elevated press box.

LIDA LEE TALL — A laboratory school for grades K-6, it greatly facilitates field studies of schools and children and includes a nursery and a day care center.

ALBERT S. COOK LIBRARY — This modern five-story building was completed in 1969 and is several times the size of the old library. It is designed to shelve 600,000 volumes and provides seating for 600 students. Towson's long history is reflected in the extensive collections of bound volumes, reference works, and substantial holdings on microfilm. The building also houses the Alan and Mark Shecter Asian Arts Collection on loan to the university.

MEDIA CENTER — This remodeled building is the former Albert S. Cook Library, and it now houses the division of communications and media services which includes the offices of equipment circulation, information retrieval, television productions, cinematography production, graphics, film loan services, still photography and audio productions and electronic repairs. The office is one of the best equipped audiovisual centers in the state. The campus radio station, WCVT, is located in this building.

FINE ARTS BUILDING — This \$6.5-million building opened in 1973 and houses the departments of art, music and theatre arts, as well as a main stage theatre, a studio theatre, concert hall, a main art gallery and the Roberts Room which displays the University's extensive Asian Arts Collection.

HAWKINS HALL — This building is part of a three building complex and it houses the elementary, secondary and early childhood education departments. Named for the former president, Earle T. Hawkins, it is equipped with large, attractive classrooms which can be sectioned into several smaller rooms. Television monitors are capable of picking up ongoing activities in Lida Lee Tall. Also included in the wing is a reading center, testing modules, and an independent production area with learning carrels.

PSYCHOLOGY BUILDING — This facility is part of the three building complex that contains Hawkins Hall and it houses the psychology department. It includes learning laboratories, animal laboratories, statistic laboratories and an auditorium with learning cubicles.

LECTURE HALL — This facility is part of the three building complex that contains Hawkins Hall and the Psychology Building. It is equipped with broad space, a large electronic screen, and adjacent seminar rooms. Television cameras are connected with Hawkins Hall and the Psychology Building.

Dormitories

RESIDENCE TOWER — This 15-story building is the university's high-rise residence hall and houses 455 students. It includes lounge areas, classroom space, conference rooms and recreation areas.

NEWELL HALL — This is the first dormitory built on the university campus. Housing 222 students, it has been renovated to an arrangement of double-loaded corridors to include small cluster living units. The units are self-contained to include small lounges, bathrooms and two or three student bedrooms. The building includes the recently remodeled dining facilities with its circular food server and snack food section.

RICHMOND HALL — This is the second building for student housing and is adjacent to Newell Hall. Its arrangement is similar to that of Newell Hall, and it houses 114 students.

WARD AND WEST HALLS — Built in 1951, these twin residence halls are located on the northern perimeter of the campus. The halls house both men and women and each can accommodate about 57 students.

PRETTYMAN AND SCARBOROUGH HALLS — Built around a court garden featuring a statue of the university mascot, these twin residence halls, completed in 1956 and 1964, provide rooms for 152 students each.

Other Buildings

UNIVERSITY UNION — Completed in 1971, this \$5-million structure is designed with two fronts. The three-story structure houses food service facilities, student lounge areas, meeting rooms, and varied recreational areas including bowling, billiards and table tennis. The campus box office, book store, post office and parking services are located there, as well as the offices of Student Govern-

ment, Towerlight, and Tower Echoes, found on the third floor. Conferences, as well as dinners, dances, and other social events are also held in the building. Located on the first floor is a Union Trust Bank offering full service to the campus.

ADMINISTRATION BUILDING — This structure, completed in 1972, houses the executive and administrative offices of the university in a three-story modern building. The \$2.2-million structure has internal flexibility to accommodate administrative growth.

ANITA S. DOWELL HEALTH CENTER — Providing medical services for the entire university since 1963, the Center's facilities include a whirlpool bath, treatment rooms, and a twenty-bed infirmary.

GLEN ESK — Formerly the home of the President, it is now occupied by the Counseling Center, which provides counseling and psychological services. The large house is surrounded by rare trees planted years before the university acquired the campus site.

GENERAL SERVICES BUILDING — These facilities opened in 1969 to consolidate the physical plant and other service operations. The building houses maintenance trade shops, the motor pool, headquarters for the police department, and central stores and receiving.

FUTURE DEVELOPMENTS

Located in one of the fastest growing areas of the county, the Towson State University enrollment is increasing rapidly. The University's 1977 enrollment was some 8,900 students and 6,641 evening students including 1,613 graduate students. In addition, over 6,900 students enrolled for two five-week summer sessions.

An optimal enrollment ceiling is under study which may suggest that the University level off at 10,000 day time students.



Undergraduate Admissions

Telephone (301) 321-2112

Vivienne Lee, Director of Admissions
Linda Collins, Associate Director of Admissions
Frederick A. Bianco, Associate Director of Admissions
Allen D. Mosley, Admissions Counselor
Stephanie T. Fowler, Transfer Evaluator

Admission to Towson State University is granted to all applicants whose academic and personal qualifications give promise of success in the University. Because of limited facilities, the University reserves the right to close admissions when no further space remains. It is therefore advisable for high school students to make their college choice at the close of their junior year or early in their senior year.

Students seeking freshman admission should file applications during the first semester of the senior year. Priority for admission will be given to those whose applications and admissions material are received by March 1. Applications from transfer students should be received no later than May 1. Admission for February is granted on a space available basis. No application for February admission will be accepted after November 15. All admission material for February entrance must be received by December 1.

Undergraduate applicants who are not citizens of the U.S. may be admitted only once each year, for Fall admission. The deadline for requesting application materials is February 15th. The deadline for submitting a final application is April 15th.

Applicants with excellent records are granted admission on the basis of high school work completed, with the condition that the remaining high school work will be satisfactory. Candidates for admission to Towson State University are strongly urged to complete a college preparatory program in high school.

The following are the admission requirements established by the Board of Trustees of the State Colleges and Universities:

1. Admission to the State Colleges shall be determined without regard to race, color, religion, or sex.

2. Admission: High school graduates

A. Admission shall be granted to graduates of accredited high schools on the basis of grades, rank, admission test scores, and such other evidence, including the recommendations of appropriate high school officials, as may be deemed indicative of the ability of the applicant to complete a course of study in college leading to a degree.

B. No admission offer shall be made prior to receipt of a candidate's scores on the admission tests administered in the candidate's senior year or subsequent thereto, except as herein provided. Early admission may be offered to not more than a maximum of twenty percent of the anticipated enrollment in the freshman class. Such an offer shall be made only to an applicant of demonstrated superior scholarship and promise, as evidenced by his record through the junior year and by his performance on the admission tests administered in his junior year or subsequent thereto.

C. The tests to be used for admission purposes shall be the College Board Scholastic Aptitude Test, effective with applicants for admission in September, 1967.

D. Admission prior to graduation from high school

shall be conditional upon completion of the high school curriculum in a manner that would qualify the student to admission under paragraph A.

E. In the evaluation of academic credentials no preference shall be granted as between residents of the State, upon the basis of their places of residence.

F. Completion of a college preparatory curriculum shall not be a condition of admission. High school graduates who have not followed a college preparatory curriculum, but whose grades, rank, and aptitude test scores indicate the potential to complete a college degree program, shall not be denied admission on that ground.

3. Admission: non-graduates of high school

Admission shall be granted to applicants who are not high school graduates on the basis of high school equivalence examinations, the admission test scores, and such other evidence, including the recommendations of appropriate persons, as may be deemed indicative of the ability of the applicant to complete a course of study in college leading to a degree.

4. Out-of-State and Foreign Students

A maximum of twenty percent of the total student body at each college may be composed of out-of-state students and foreign students not resident in Maryland. However, the college shall be expected to meet its obligations to qualified resident students before approaching the maximum enrollment of out-of-state and non-resident foreign students.

5. Foreign Students

A. A foreign student not resident in the United States shall receive the same schedule of fees as an out-of-state resident.

B. All foreign student applicants will be required to take the Test of English as a Foreign Language (TOEFL) which is administered by the College Entrance Examination Board.

6. Student Residency Classifications for Tuition Purposes

A. General. To qualify as a resident for tuition purposes for any given semester, an individual must have maintained his/her domicile in Maryland for at least six months immediately prior to the last date available for initial registration for that semester in the applicable State College.

B. Domicile.

(1) *Establishment of domicile.* The term "domicile" shall be synonymous with the term "residence." Domicile is a person's permanent place of abode; namely, there must be an intention to live permanently or indefinitely in Maryland. Domicile must be established in Maryland for a purpose independent of attendance at a State College.

(2) *Maintenance/change of domicile.* For the purpose of residency for tuition purposes, only one domicile may be maintained.

(a) A domicile in Maryland is lost when a new one is established elsewhere, or if an individual leaves the State with no intent to return to Maryland. After residing elsewhere for six months, regardless of intent to return, a stu-

- dent's status as a resident for tuition purposes is in question.
- (b) The domicile of a student shall be determined at the time of initial registration but may thereafter be changed for any subsequent semester if circumstances change in relation to these regulations.
 - (c) The burden of proof of domicile shall necessarily rest with the student.
 - (d) A change in tuition status must be requested by a student prior to registration period in order to be effective for that semester.
- (3) *Domicile of a minor.* The domicile of an unmarried, unemancipated minor is normally that of the parent having custody of the minor. The following extenuating circumstances shall apply:
- (a) If both parents are deceased, the domicile of the minor shall normally be that of the legal guardian if one has been appointed. If no legal guardian has been appointed, the minor's domicile shall normally be that of the person *in loco parentis* to the minor. A person stands *in loco parentis* to a student when he has put himself in the situation of a lawful parent by assuming the obligations incident to the parental relation without going through the formalities necessary to legal adoption. The determination of such status will be made on a case by case basis by the responsible college official who will consider who has custody or control of the student, who is financially supporting the student, and who has assumed general responsibility for his/her welfare.
 - (b) If the parent, legal guardian, or person *in loco parentis* (whichever is applicable) having custody of the minor changes his/her domicile to another state, the student shall be charged out-of-state tuition for any semester commencing six months after the person having custody changes his/her domicile.
 - (c) A non-resident student who reaches the age of eighteen while attending a State College does not qualify for classification as a resident for tuition purposes simply by virtue of having become an emancipated student.
 - (d) An emancipated student is considered an adult for the purpose of determining his/her residence classification.
 - (e) The residence of a married minor shall be determined in the same manner as an adult.
- (4) *Domicile of a woman.*
- (a) A married woman must establish her domicile independently of her husband, even though they live jointly.
 - (b) A divorced woman must establish her own domicile.
 - (c) A separated woman must establish her own domicile.
 - (d) A minor whose marriage is annulled takes on the domicile of her parent, legal guardian, or person *in loco parentis*.
 - (e) A woman over eighteen whose marriage is annulled is responsible for establishing her own domicile.
- (5) *Emancipation.*
- (a) Minors claiming emancipation from their parent, legal guardian, or person *in loco parentis* (if applicable) must present one or more of the following documents to substantiate any claim of emancipation:
 - (i) Proof of place and length of domicile in the State;
 - (ii) Marriage Certificate;
 - (iii) Court order declaring that a student under the age of eighteen is emancipated from his/her parent or legal guardian, (A notarized letter and a copy of the previous year's tax return from the parent(s) or legal guardian may suffice if the costs of obtaining a court order place an undue financial burden on the student.)
 - (b) Minors claiming emancipation must meet the domicile requirements of an adult.
- (6) *Adults.* A person eighteen years of age or older is a resident if he/she has maintained continuous domicile in Maryland for six months immediately prior to the last date available for initial registration.
- (7) *Military Personnel.*
- (a) Members of the Armed Forces not from Maryland at the time of entrance into the Armed Forces and stationed in Maryland may be considered residents of this State if they establish domicile in Maryland.
 - (b) The dependents of men and women in any branch of the Armed Forces who are stationed in Maryland and who have established domicile in the State six months prior to their first registration are granted residence status for tuition purposes.
 - (c) A member of the Armed Forces who was a resident of Maryland at the time he/she entered the Armed Forces retains his/her residency status as long as he/she remains in the Armed Forces provided he/she does not establish domicile elsewhere.
 - (d) An adult sent by a branch of the Armed Forces to a State College for the purpose of completing degree requirements may be granted residence status for tuition purposes.
- (8) *Foreign Nationals.*
- (a) Any foreign national holding a permanent United States immigrant visa must meet the domicile requirements of an adult or a minor, as applicable.
 - (b) A foreign national possessing a student visa cannot be classified as a resident of Maryland.
 - (c) The minor sons and daughters of citizens of other countries who are holders of a G-4 visa and whose parent(s) or legal guardian establish domicile in Maryland for a period of six months prior to registration at a State College may be granted residence status for tuition purposes.
 - (d) Adults on refugee visas of other countries may be granted Maryland residence status provided they establish domicile in the State for a period of six months prior to their first registration at a State College. Minors ac-

quire the residence of their parent(s) or legal guardian.

(9) **Responsibility of Students.**

- (a) Any student or prospective student in doubt concerning his/her residence status is responsible for receiving a ruling from the designated official at the applicable State College.
- (b) A student who alters his/her status from resident to non-resident, or vice-versa, has the responsibility of informing the designated official at the applicable State College.
- (c) The residency status of a student may be altered by the applicable State College on the basis of its own findings.
- (d) A change in status must be requested by a student prior to the registration period in order to be effective for that semester.

7. **Admission: Advanced undergraduate standing**

- A. An applicant for advanced undergraduate standing must present official transcripts from all institutions which he has attended. The transcript from the last school he attended must show him to be in good standing and have earned a minimum of a 2.0 average, for at least twelve (12) semester hours credit. Transfer credit shall be allowed for all academic course credits earned at public colleges accredited by the Maryland State Department of Education or at any regionally accredited college or university. Career, terminal or other courses not offered at the College will be accepted for transfer credit if approved by the appropriate department of the College, or in the absence of an appropriate department, by the Admissions Committee of the College. In all cases, the applicant must spend the final year "in residence" at the College as a full-time student. Exemption from the preceding requirement may be granted on an individual basis by the Standards Committee.

- B. It is the policy of the Board of Trustees that every effort shall be made to facilitate the transfer of graduates from the public community-junior colleges of the State of Maryland to the State Colleges. Such graduates who have pursued a transfer program and who have achieved an Associate in Arts Degree within four semesters in the case of full-time students, or the equivalent in the case of part-time students shall have priority over other transfer applicants for upper class standing. For priority purposes, Towson will consider a student with 56 credits as having completed his work at the community college.

- *C. Every student must meet the general education requirements, departmental requirements, and earn 120 credits in order to graduate.

A maximum of 90 credits may be transferred to Towson State College from another regionally accredited institution; not more than 64 of these transfer credits may be from a two-year institution. The sequence in which the credits are obtained at 2-year and/or 4-year institutions does not affect in any way the determination of the previously stated total number of credits accepted for transfer. Transfer students are reminded of the rule that a mini-

mum of 32 semester hours of upper division work is required for graduation.

Towson State University students must obtain prior approval of the Academic Standards Committee to take courses at another institution for the purpose of transferring them for credit. In general the Committee will not approve taking courses for credit at a 2-year institution once 64 credits have been attained.

- D. Transfer credit will not be given for correspondence courses or for U.S.A.F.I. or military courses. Transfer credits will not be given for courses taken at a college or university which is not accredited by its regional association or the Maryland State Department of Education.

8. **Admission: Veterans**

Effective November 1, 1969, any veteran who is eligible for G.I. benefits and who has a high school diploma or equivalency will be admitted to Towson State University despite his previous academic record(s). Veterans who have attended other colleges since their discharge are NOT included in this policy, and would seek admission through the normal transfer process. Priority for the acceptance of veterans will be given to the residents of the state of Maryland. Out-of-state applicants will be admitted on a space available basis. In addition to high school or college transcripts, each veteran must also provide the Admissions Office with a copy of his DD Form 214 as verification of military service. The S.A.T. results are NOT required of veterans seeking full-time admission under this policy. Applications for V.A. benefits may be obtained from the University's Office of Veterans' Affairs.

ADMISSIONS PROCEDURE

1. An applicant may secure an application form from the guidance office of the secondary school or from the Admissions Office of the University.
2. The applicant should complete the personal part of the form and forward it with the application fee of twenty dollars to the Director of Admissions. Each applicant is responsible for the Admission Office's receipt of his/her official high school transcript, which must be received directly from the student's high school. The transfer applicant should arrange to have forwarded official transcripts of all college work attempted or completed, whether or not credit was earned from all other institutions attended. If housing on campus is desired, please mark the appropriate box on the application for admission.
3. The standardized test required for admission is the Scholastic Aptitude Test of the College Entrance Examination Board. The applicant should arrange to have forwarded to the Director of Admissions the results of this test. Students should take the test in their senior year of high school (either the November, December, or January administration). Junior year SAT scores are also acceptable.

DEFERRED ADMISSION

Effective September 1974, Towson will offer admission to high school students, who qualify under present standards, with the option of accepting the offer beginning any semester within the next three years. Students will be obligated to notify the University and submit an acceptance fee three months prior to the semester they wish to attend.

* For specific details regarding this policy contact Secretary of the Academic Standards Committee or Director of Admissions, Towson State University.

Students will be responsible for complying with the academic regulations published in the *University Bulletin* in effect for the semester in which they enroll.

Students who enroll at another institution will be required to reapply as transfer students, and may not be included in this program.

MATURE ADULTS POLICY

In September 1974, Towson State adopted an admissions policy which guarantees admission to a mature student regardless of the student's previous academic records or standing. Students are required to have a high school diploma or equivalency, and have a three-year break in their formal education in order to be admitted under this policy. Applicants are required to submit a formal application and official transcripts of any and all academic work attempted, but are excused from entrance test requirements. Applicants are also encouraged to have an interview with the Director of Admissions or a member of the Admissions staff prior to their anticipated enrollment.

EARLY ADMISSION

A limited number of students are admitted and matriculate immediately following the completion of their junior year in high school. Students interested in "early admission" should apply through the normal application process. Their applications, however, must be accompanied by a letter of recommendation from either the high school counselor or principal. An official high school transcript should be submitted along with the results of the S.A.T. An interview with the Director of Admissions is also advisable.

ADVANCED PLACEMENT AND CREDIT FOR ENTERING STUDENTS

The University does not wish students to repeat work already taken. Entering freshmen who have had the opportunity for advanced work may receive advanced placement (and in some cases advanced credit) for this work.

During the summer prior to registration or during the opening week, freshmen take placement tests in various fields, and registration is based on the results of these tests.

Students who would like advanced credit as well as advanced placement are required to take the Advanced Placement Tests of the College Entrance Examination Board in May of the senior year of secondary school. The results of these tests are received by the College about July 15. They are reviewed, along with grades in these subjects, by the departments concerned, and when appropriate, placement and/or credit is granted. Prior to final registration students are notified about advanced placement and credit. Additional information may be obtained by contacting the Director of Admissions at Towson State University, or the appropriate departmental chairperson.

A bulletin of information about the Advanced Placement Tests may be secured from the College Entrance Examination Board, P.O. Box 592, Princeton, N.J. 08540.

Some students will be required to complete special competency courses in language and writing in addition to meeting General University Requirements in English. Certain foreign-born students will be required to complete

English as a Second Language I, II, III as a prerequisite to enrollment in 1501.102, College Writing. Students whose entering SAT scores indicate they need additional preparation to meet the standards of college-level expository writing will be required to complete either or both of two courses — 4901.110, Explorations in Communications Skills, and 4901.101, Preparation for College Writing — as prerequisite to enrollment in 1501.102, College Writing.

CREDIT FOR EXPERIENCE AND PREVIOUS LEARNING

Departments are permitted to grant credit to students for experience and previous learning when the student's achievement in a particular area is equal or is superior to that of a student having earned a C in the course taken. This is the level at which credit is generally granted to transfer students. While departmental standards for the granting of credit for experience and previous training may exceed this minimum, credit may not be given when achievement is below C level work. Departments may also offer advanced placement with no credit given if they wish.

When departments use standardized evaluative instruments such as CLEP, the College Board Advanced Placement Tests, or others, the same principle shall be adhered to. If the faculty member's evaluation reveals that the student's achievement is equal or superior to that of a student having earned a C in the course taken in a traditional way, the department will report the grade of PE to the Registrar on the form for granting course approval to students.

EVALUATION OF TRANSFER CREDITS

Applicants who have been admitted to the University as a transfer student will receive an evaluation of their previous course work from the Admissions Office with their letter of acceptance. This evaluation will be preliminary in nature if the student is still taking course work. If the student accepts Towson's offer of admission, a final evaluation of transfer credit will be made upon receipt of the transcript showing the student's grades for the most recent semester.

Upon receipt of their final evaluation, students should carefully review its contents. If the student has any questions or feels there is an error, the student must so advise the Admissions Office within 30 days. In no case will changes, additions, or corrections be made to the evaluation after the students have completed their first semester at Towson State University.

PLEDGE TO TEACH IN MARYLAND

The tuition waiver program to encourage students to prepare for teaching positions in Maryland was abolished after 1 October 1972.

All students enrolled under the tuition waiver agreements in the fall semester 1972 may continue their program to graduation providing they are continuously in good standing from the fall of 1972 until graduation.

Students who are required to interrupt their attendance after the fall semester 1972 would be able to resume the tuition waiver agreement providing the student had officially withdrawn from the University for a period not exceeding one year.

Expenses

TUITION

Those who enroll in the arts and sciences program, and those in teacher education program pay \$297.50 per semester tuition.

For out-of-state students the tuition is \$747.50 per semester for enrollment in either the arts and sciences or teacher education program.

Special students (normally those who register for less than 12 semester hours) in the regular session, and all summer and evening session students pay \$28.00 per credit hour each semester for undergraduate and \$45.00 per credit hour for graduate work.

Tuition charges and fees are subject to change at any time by action of the Board of Trustees.

HOUSING AND BOARDING COSTS

Dependent upon room and board plan selected, students living on campus may pay approximately \$700.00 per semester for room and board. Students living off campus may purchase a meal plan averaging \$360.00 per semester.

As residence space becomes available, those students who are eligible to reside in residence will be requested to room in one of the halls. For those students who enter the residence hall after the beginning of a semester, the charge will be prorated for the remainder of the semester plus one week. (For exact rates contact the Residence Office.)

Rates for living expenses are subject to change by the Board of Trustees.

OTHER FEES AND EXPENSES

A comprehensive fee of \$77.00 is charged each full-time student each semester. The yearly fee is \$154.00. This includes fees for student activities, athletics, university union, registration, and curriculum costs.

Commuter students will find a limited number of lockers available in Stephens Hall, the Fine Arts Building and the University Union. Lockers are rented for \$2.00 per year and may be obtained from the Recreation office in the University Union. The University assumes no responsibility for personal property placed in lockers.

Students taking Physical Education courses are assigned lockers by the Department of Physical Education in Burdick Hall.

A graduation fee of \$15.00 is required for those receiving a bachelor's degree and the fee for those receiving a master's degree, plan A (with thesis) is \$30.00, plan B (without thesis) is \$25.00.

There is a fee of \$1.00 per student per semester included in the comprehensive fee to help offset mailing costs.

Students are expected to buy the textbooks for their courses, which may be purchased in the University Store. Students are required to buy gymnasium suits for the courses in physical education. These are also available in the University Store.

A late registration fee of \$5.00 is charged to any student who does not pre-register as prescribed.

A late change of course fee of \$5.00 is charged to students for making student-initiated changes in their academic schedule.

Evening and summer students are charged \$28.00 per credit hour (undergraduate) or \$45.00 per credit hour

(graduate) and a \$21.25 comprehensive fee for each semester.

Students enrolled in a practice teaching experience (student teaching) are charged \$106 per practice experience.

The Board of Trustees reserves the right to make any changes or adjustments in tuition, fees, or charges when such changes are deemed necessary.

EXPENSES FOR MARYLAND RESIDENTS

Arts and Sciences students and Teacher Education students expenses:

	Semester I	Semester II	Total for Year
Comprehensive Fee	\$ 77.00	\$ 77.00	\$ 154.00
Tuition (In State)	\$ 297.50	\$ 297.50	\$ 595.00
Total Day Students	\$ 374.50*	\$ 374.50*	\$ 749.00*
Room and Board	\$ 700.00**	\$ 700.00**	\$1400.00**
Total Boarding Students ..	\$1074.50	\$1074.50	\$2149.00

*Out of state students should add \$450 more to each semester for higher tuition costs.

**Includes \$1.00 key deposit which will be refunded at checkout if key is returned. These figures are based average expected room and board rates.

PLEASE NOTE: Because of rapidly increasing costs and virtually a stand-still budget appropriation, it may be necessary to increase the tuition or fee \$50 to \$100. It is suggested that the amount on checks not be completed until registration.

PAYMENT OF FEES

All checks or money orders should be made payable to "Towson State University" for the exact amount of the charges. The student's Social Security number must appear on all checks submitted to the University. The University has no deferred payment plans. BankAmericard or Master Charge credit cards may be used only for the part-time Continuing Studies Division. All fees are due and payable at the time of registration. Students may not be admitted to classes until such payment has been made. When a check given in payment of fees, fines or services, is returned unpaid by the bank for any reason whatsoever, a penalty fee of \$5.00 for checks up to \$50.00 or \$10.00 for checks over \$50.00 is charged. Failure to reimburse the University for a bad check will result in your being cancelled from class and denied readmission.

Financial policy set by the Board of Trustees and supported by the Legislative Auditors of the State of Maryland states that all previous balances must be paid prior to registration for the following academic semester.

ADVANCE PAYMENTS

Each applicant must pay a non-refundable application fee of \$20.00 and no application will be processed without this fee or a valid waiver.

Upon notification from the Residence Office that space is available, a \$50.00 room reservation deposit is required. This fee is applied to the final charge reflected on the statement of fees payable at the time of registration.

The above room deposit is refundable if the student cancels his application and notifies the Admissions Office, in writing, prior to June 30 for those entering in September, or if the University denies admission to the applicant.

The fee is forfeited if notice of cancellation is received after June 30.

REFUNDS ON WITHDRAWAL

A student withdrawing from the University must complete an official withdrawal card at the Dean of Students Office

and file it in the Registrar's Office before he/she is entitled to any refund. The date of withdrawal will normally be the date the card is filed.

Refund Policies

1. Towson State University shall adhere to the following policies with respect to refunds to students of tuition, room and board fees, and other charges.
2. The timing for effecting tuition refunds shall be as follows:
 - a. Prior to registration and before classes start — all tuition and fees except the application/registration fee shall be refunded the student.
 - b. Prior to the fifteenth calendar day from the official beginning of classes at the University — 100 percent of tuition, less a \$10 administration cost fee and \$25 acceptance fee, shall be refunded the student.
 - c. Beginning with the fifteenth day after the official beginning of classes at the university to mid-semester, as shown on the university calendar — 50 percent of tuition, less a \$10 administrative cost fee and \$25 acceptance fee, shall be refunded the student.
 - d. After mid-semester — no tuition or fees shall be refunded the student.
3. The same time span shall be utilized for fee refunds, except that:
 - a. Registration/application fee — non-refundable.
 - b. Room Deposit fee — non-refundable after July 1 prior to the fall semester.
 - c. Room Rent fee — non-refundable after the first day of classes.
 - d. Insurance Plan — A Sick and Accident Insurance Plan designed especially for the students of Towson State University is offered at a nominal fee. The policy covers the student twenty-four hours a day for twelve months of the year in any location. While this plan is voluntary, some medical coverage is required of all students who participate in athletics. It is assumed that the student has elected to purchase the insurance protection unless a waiver card is signed and submitted prior to the payment of the statement of fees. No request for adjustments or refunds will be accepted after the first day of classes, however, if a student withdraws from the University, coverage will remain intact for the policy year.
 - e. Student fees (athletic, etc.) — non-refundable.
 - f. Auto Registration fee — non-refundable.
 - g. Applied fees (private instruction) — non-refundable.
 - h. Board fee shall be pro-rated on a weekly basis, plus one week up to mid-semester — thereafter, non-refundable.
 - i. Key Deposit fee — 100 percent refundable.
4. The timing for effecting tuition and fee refunds for summer sessions shall be the same as for regular sessions except that for a period not to exceed fifteen calendar days after the official beginning of classes at the University, only 50 percent of the tuition shall be refunded the student. Beginning with the fifteenth day after the official beginning of classes at the University, no tuition shall be refunded the student.
5. Individuals who register for a full schedule and who drop courses after the official beginning of classes at the

University shall not be entitled to a refund based on a credit-hour charge.

6. Any student dismissed by a college for disciplinary reasons shall not be entitled to any tuition or fee refund.

FINANCIAL AID

The Financial Aid Office at Towson State University supports the philosophy that it is the responsibility of both the student and his/her parents to pay college expenses. Financial aid is designed to supplement, but not replace, these primary resources. Therefore, most of TSU's aid programs are based on the financial need of the family.

The nationally standardized procedures suggested by the College Scholarship Service (CSS) through its Financial Aid Form (FAF) is utilized to demonstrate need. This system is based on need analysis procedures required and approved by Federal law. All students must reapply every year for continuation of financial aid.

Except as noted within individual program descriptions, all students who are carrying at least 6 credits per semester, are in a degree seeking program of study and are in good standing are eligible to apply for student aid programs. Special students can be considered for funds if enrolled in the Qualifying Program (see Division of Continuing Studies Section).

Since college financial assistance programs are based on financial need, students are required to report to the Financial Aid Office all scholarships, loans, grants and earnings from employment not originally reported on the application for aid as they occur. The student's need will be reevaluated. If need is decreased the student's aid will be reduced accordingly. Where possible, the student's aid for the following semester will be adjusted. Should an over award occur (aid received is in excess of need), the College will bill the student for repayment of assistance already received. The payments will be refunded to aid accounts in the following order: BEOG when applicable, NDSL and Nursing Loans, Other Race Grants, College Scholarships and Grants, Federal Grants (SEOG, Nursing Scholarship).

Students not returning financial aid materials and acceptance by the time specified on the award letter are subject to award cancellation.

Students who withdraw or stop attending classes before the end of the semester can be liable for repayment of any amount of financial aid received that exceeds the cost of tuition, fees and books.

Disbursement of Financial Aid

Confirmed aid recipients who pre-register (thereby generating an early bill) will receive financial aid credit directly on the statement of fees. Any balance still due the student after all charges have been deducted will be disbursed, to the student, as a rebate check during the first full week of classes each semester. No checks will be released without the statement of fees copy and the University ID (identification card).

Recipients who must register "in person" (thereby generating a bill at the time of registration) will receive any rebate amount due after all charges have been deducted after the first month of classes. (Allow 40 to 60 days.)

If the financial aid amount credited (or rebated) includes a National Direct Student Loan (NDSL), the recipient MUST go to the Finance Office on or before the first full week of classes each semester and sign the appropriate loan forms. Recipients due a rebate can sign the loan

forms when the rebate check is obtained. Recipients with NDSL credit who either receive no rebate or have a "0" balance, MUST also sign the loan forms before the end of the first full week of classes each semester. Each loan disbursement/credit requires a signature as receipt of the NDSL amount; loan forms must be properly completed and signed by the deadline or the NDSL credit will be withdrawn and the recipient will be responsible for the NDSL amount previously credited. Having bills not cleared and finalized can result in the cancellation of the student's classes and permission withdrawn for registering the following semester.

Application Procedures for College Financial Aid Programs

Incoming freshmen should obtain Financial Aid Form (FAF) from their high school counselors or from the TSU Financial Aid Office. A TSU Form A application supplement must be sent to the TSU Financial Aid Office before processing can be completed. Upper-classmen should apply directly to the Financial Aid Office for an FAF and Form A. (All appropriate forms must be on file before processing begins.) There is a \$4.50 processing fee for the FAF, payable to the College Scholarship Service at the time the application is filed. (Fee is subject to change.)

All prospective freshmen and transfer students should file their TSU financial aid application when they submit their TSU admission application although financial aid applications will not be processed by the University until the student has been offered admission. Applications for all financial aids should reach our office by April 1 for the following school year. Applications for summer should reach our Office before March 15. (Please note that 4 to 5 weeks processing time by CSS must be allowed in meeting these deadlines.) Students who are admitted as new students after April 1 may be given consideration for funds after the deadline date. After April 1, we cannot assure immediate processing nor announcement of results prior to the beginning of the school year and alternate arrangements for bill payment should be made. If funds are still available, necessity cases will be processed during the school year.

Direct Federal Aid Program — BEOG

The Basic Education Opportunity Grant Program (BEOG) provides grants to eligible students. All students carrying at least 6 credits per semester are eligible to apply. Grants range from \$200 to \$1600 depending on the federal formula. The grant is awarded by the federal government, not the University. Applications may be obtained from the Financial Aid Office or high school guidance counselor. All students applying for financial aid from the University who are eligible to apply for the BEOG are required to do so by Towson State University. Beginning January, 1978, for the 1978-79 academic year, the FAF can be used as application for the Basic Grant (BEOG).

College Aid Programs

The Supplemental Educational Opportunity Grants Program (SEOG) provides grants to half- and full-time students with exceptional financial need (student's family contribution less than one half the cost of education). Recipients must show evidence of academic or creative promise and capability of maintaining good standing in his/her course of study and would not, but for a supplemental grant, be financially able to pursue a course of

study at Towson State University. These grants may provide up to one half of the actual need of the student and do not have to be repaid. The other half of the actual need must be met by state, private and college scholarships, loans, work-study jobs and other aid, or the grant may not be received.

The National Direct Student Loan Program. Loans range in value from \$100 to \$1250 per year for undergraduates and up to \$2500 per year for graduate students. Repayment may be deferred while the student is enrolled on at least a half-time status, or for a maximum of three years while the borrower is in ACTION, the Peace Corps, VISTA, or the military. Special Education teachers teaching economically and culturally deprived areas may receive up to 100 percent cancellation for teaching over a period of five years. The minimum monthly payment is \$30 plus 3% per year simple annual interest. Repayments of the loan are deferred until 9 months after the student graduates or discontinues attendance.

The College Work-Study Program (CWS) makes jobs available to undergraduate and graduate students with exceptional financial need. These jobs are usually assigned as part of the "Financial Aid Package." Employment may be obtained in departmental offices on-campus and on a limited basis in non-profit private or governmental agencies on a contracted off-campus arrangement.

The Other Race Grant (ORG) is a grant for degree seeking undergraduate minority students attending on a full-time basis who are U.S. citizens and legal residents of Maryland who have financial need. These grants are usually awarded in combination with other financial aid awards. The maximum grant may not exceed the need of the student.

The Low Enforcement Education Program (LEEP) provides grants up to \$400 per semester for college studies by police, courts, and corrections employees. Additional information and applications for LEEP can be obtained in the Financial Aid Office. Deadline for grants is one month prior to registration.

The Nursing Student Loan and Scholarship Program provides financial assistance to full and half time undergraduate students who are admitted into the Nursing or Pre-nursing major and who possess a 2.5 GPA at the end of the freshman year. The maximum scholarships or loan to be received is \$1500 or \$2500 respectively per academic year depending upon financial need. Students eligible to receive the Nursing Loan are not eligible to receive a National Direct Student Loan.

Ed Moulton University Loan Fund. The Ed Moulton Loan Fund and College Loan Fund were combined in 1974 to offer short term loans. Loans are given up to a maximum \$300 at 12% annual interest. Applications may be secured from the Financial Aid Office. The Ed Moulton Loan Fund was established in 1956 in memory of Ed Moulton, a former Towson State University Student. The Sarah E. Richmond Loan Fund was established by Sarah E. Richmond, who was affiliated with the University for 50 years as student, teacher, principal, and dean of women. The fund has been increased by gifts from the Alumni Association and the Herbert A. Siegel Memorial Fund.

Other contributions to the College Loan Fund are from the following: James Saxton Memorial, the Class of 1900

Memorial to Katherine Muhlback, the Class of 1925, the Normal Literary Society, the Pestalozzi Society, the Reese Arnold Memorial, the Lillian Jackson Memorial, the Esther Sheel Memorial (Class of 1927), the Carpenter Memorial, the Eunice K. Crabtree Fund (gift of the Class of 1931), the Pauline Rutledge Fund (gift of the Class of 1934), the Pearle Blood Fund (gift of the Class of 1940), the 1933 Gift Loan Fund of Faculty and Students, the Gertrude Carley Memorial, Washington County Alumni, the Grace Boryer Downin Fund, the Class of 1941 Fund, the Martha Richmond Fund, the Towerlight Fund, the M. Clarice Berch Fund (gift of the Class of 1951), the Bettie Sipple Fund sponsored by the Maryland Federation of Women's Clubs, the Lucy Scott Memorial Fund, the James B. O'Toole, Jr. Memorial Loan Fund, the Ellen Pratt Hamilton Memorial Loan Fund, the Rodgers Forge PTA Loan Fund in memory of Ellen Pratt Hamilton, the Delta Beta Delta Loan Fund, and periodic contributions from the Alumni Associations.

State Loan Program

The Maryland Higher Education Loan Program is geared toward the family with less actual financial need, but who desires to utilize credit to meet college expenses. These bank loans provide up to \$2,500 per year for undergraduates and \$5,000 for graduate students. The federal government pays the 7% interest for students from families with adjusted incomes under \$25,000 while they are in college. Families with adjusted incomes over \$25,000 may qualify for the interest benefits if need is demonstrated. Loans may also be secured without the federal interest benefit. Applications may be received and must be processed by the financial aid office before final arrangements for the loan are made with the bank. Further information may be received from the financial aid office. Bank rules and requirements vary but generally funds are restricted to bank customers. Also, the student borrower must pay a fee of 1% for the term of the loan when the application is submitted to the lending institution.

State Scholarships

- A. The state of Maryland each year awards General State, House of Delegates, and Senatorial Scholarships to legal residents of the state. Interested high school students should consult their school counselors. Students presently enrolled at Towson State University may obtain an application from the Financial Aid Office or the State Scholarship Board, 2100 Guilford Avenue, Baltimore, Maryland. The application deadline is February 15th for the following academic year.
- B. *Wor Orphans*. Students between ages 16-23 who have lost one or both parents during or after World War II in military service or whose parent(s) is a totally and

permanently disabled Veteran, is eligible to apply. Applications may be obtained from the State Scholarship Board, 2100 Guilford Avenue, Baltimore, Maryland 21218.

- C. *Vocational Rehabilitation Program*. Grants are available to students with physical handicaps. Applications may be obtained from Vocational Rehabilitation, 2100 Guilford Avenue, Baltimore, Maryland 21218.
- D. *Professional School Scholarships* in tuition are available to TSU students majoring in Nursing. Further information should be obtained from the TSU Financial Aid Office.

College Scholarships. The *Helen Aletta Linthicum Scholarships* were established by the will of Mrs. Linthicum, widow of J. Charles Linthicum, who was a member of the class of 1886. The fund is administered by the trustees of the estate and the Financial Aid Office. All full-time undergraduate entering and continuing students are eligible to qualify for these sixty awards. The *Edith C. Sheridan Scholarship*, established by Mrs. Sheridan, a member of the class of 1906, is also administered by the Financial Aid Office. One upper-class student may receive the *Minnie V. Medwedeff Endowment Scholarship*. This award is made annually to an outstanding student selected by the trustees of the fund. The scholarship was established in memory of Minnie V. Medwedeff by her father. Miss Medwedeff was an instructor in the University from 1924 until her death in 1935. The *Alice B. Gibson Scholarship* fund was established in 1969 to be awarded to an upperclassman majoring in early childhood or elementary education. The scholarship is awarded by the Financial Aid Office. The *Herbert A. Siegel Scholarship* fund was established to be awarded to an outstanding student majoring in psychology. The *Heidi Livingston Scholarship* fund was established to be awarded to a student majoring in music. Other scholarships include: the *Jean B. Crow Memorial Fund*, *Jennifer L. Thomas Memorial Fund*, *John David Horst Memorial Fund*, *James Moniodis Scholarship Fund*, the "A" Scholarship Fund, *John J. Leidy Scholarship*, *Rachel Rosen Scholarship Fund*, *Velie Scholarship*, *F. M. Schaeffer Scholarship*, *Michael Joseph Melkisetian Memorial Scholarship*, and the *Endowment Fund Program* for Latin American, Spanish and Portuguese Students in Memory of Dr. Francisco Sabin. *Regular Student Employment*. (Other than Work-Study) positions as well as off-campus job positions are maintained on the Job Boards in the Financial Aid Office. Clearance through the Financial Aid Office is required for on-campus employment. The off-campus jobs are posted on the Job Boards and are received from outside organizations during the academic year and summer. These jobs include work for a variety of community agencies, stores and summer camps.

Student Services Programs

The Student Services programs facilitate students' meeting the University goals. The various departments help students to plan effectively.

ORIENTATION

AD 102, telephone 321-2306

The Orientation Office assists incoming students in interpreting academic policies, requirements, and standards; in selecting courses and planning schedules; and in registering for their first semester at the University. Through its TRIAD programs, this office helps new students to understand the freedoms and responsibilities they will encounter at Towson and it explains the services and facilities available to them. The Orientation Office also conducts programs for parents and other special groups.

ACADEMIC ADVISING (ACAD)

University Union 216, telephone 321-2472

Advice on selecting a major, choosing courses, special load permits, developing goals, fulfilling requirements, choosing electives, and meeting standards is available either through the ACADEMIC ADVISING OFFICE (ACAD) or through the student's MAJOR DEPARTMENT.

Students who have already chosen a major should go at once to the department offering that major where he/she will be advised. A list of departments and their locations can be found in the current Towson State University *Schedule Booklet*.

Students who have not yet chosen a major should seek advice through the ACAD Office. Assistance with career planning is available through the Counseling Center, Glen Esk (telephone: 321-2512), or the Placement Office, Room 108 — Administration Building (321-2233).

RETURNING OLDER STUDENT ADVISING

University Union 216, telephone 321-2473

This service assists students who return to school after a break of three or more years in their formal educational process. Such students range in age from approximately 21 to over 70. The service provides guidance to older students regarding the many resources and options available at the University and helps them with their transition back into the academic setting. An "Emergency Card File" is set up each semester to facilitate communication between students and their families.

FOREIGN STUDENT AFFAIRS

University Union 216, telephone 321-2472

This office provides information about college policies and Federal regulations regarding foreign students and assists foreign students in their academic adjustment.

Foreign Student Regulations:

1. A "Foreign Student" at Towson State University is considered to be any student possessing an F-1 (Student Visa); F-2 (Spouse, or Child of Student Visa); J-1 (Exchange Visitor Visa); or J-2 (Spouse or Child of Exchange Visitor Visa) visas. Exceptions or additions to this rule will be regulated by the Foreign Student Advisor.
2. Any foreign student entering this university must be able to demonstrate proficiency in the English lan-

guage, usually through the Test of English as a Foreign Language (TOEFL).

3. Any foreign student entering the university should be able to support himself/herself entirely for his/her first year of residency.
4. A transfer student must have prior permission from the Department of Immigration and Naturalization to transfer to Towson State University and must fulfill all of the above requirements.
5. To qualify for an F-1 (student) Visa, all foreign undergraduate students must be enrolled in the Day School or the Division of Continuing Studies and must carry 12 credit hours per semester. Graduate students must carry at least nine credit hours per semester, but may carry less if, after enrolling for four graduate courses, their credit hours do not total ten.

Since foreign students are usually among the latest to be admitted, housing is sometimes a problem. The Director of Off-Campus Housing (Newell Hall, Room 01) can be of help when on-campus residence is not available.

The office of Foreign Student Affairs is located in the University Union 216. The hours are 8:30 a.m. to 4:30 p.m.

SERVICES FOR DISABLED STUDENTS

AD 102, telephone 321-2307

The University is committed to offering educational opportunities to all who can profit from them. While some of our older buildings present architectural barriers to persons with particular disabilities, alternatives are provided for disabled students.

Prospective students as well as students currently enrolled who have physical disabilities are urged to contact Mr. Lonnie McNew, at the above number, regarding such matters as special registration, reader service, or other arrangements that can aid in removing architectural, social, or procedural barriers.

COUNSELING CENTER

Glen Esk, telephone 321-2512

The Counseling Center provides a variety of developmental experiences for groups or individuals who are interested in refining their effective living skills. The Center also offers individualized help with personal, social, and career related problems. The staff and services of the Center are available to students, faculty, and staff of the university community. Interested persons are invited to call for an appointment or drop by the Center.

The services offered at the Counseling Center are also available at the Satellite Counseling Center located in Room 318 of the University Union (Study Skills Center).

MENTAL HEALTH

Health Center, telephone 321-2466, 321-2469

Free psychiatric services are available to all students at the campus Health Center.

Contacts with the Mental Health Service are entirely confidential. Students may "drop in" at the Health Center, or arrange appointments by telephone or through the Counseling Center. In addition, the Mental Health Service is available to work with various groups on campus in regard to mental health concerns in specific areas or in the college community as a whole. Students who wish to

have psychiatric collaboration or participate in these activities are encouraged to request this service by contacting the Director of the Mental Health Service, at the Health Center.

STUDENT DAY CARE CENTER

Lida Lee Tall, telephone 321-2652

The Student Day Care Center was established and is assisted by the Student Government Association. The Center provides quality child care for the children of Towson State students. Applications may be obtained by calling or writing the Center. Children must be 2 years old by admission date. They are accepted on a first-come, first-serve basis with children of full-time students receiving priority. Tuition is charged on a sliding scale according to family income. The Center is in operation from 7:30 a.m. until 5:30 p.m. and follows the college calendar. The immediate goal of the Center is high quality care in the absence of the child's parents. The Center assures opportunities for physical, emotional, and intellectual growth. Operational Maintenance of the Student Day Care Center is supported by the Student Government Association.

STUDY SKILLS CENTER

University Union 317, 321-2291

Through its tutorial programs, learning lab, and counseling satellite, the Study Skills Center provides support services for all students who need academic help. The tutorial program offers individual tutoring in over 100 courses currently offered at Towson. Tutoring can be arranged on an on-going, one to two hours per week, basis. In addition, walk-in clinics have been established in mathematics, science, and business. Through the learning lab, reading instructors are available to provide assistance in reading and study skills. Counselors are available on an appointment basis to assist students with life planning skills.

Students may register in person at the Center or by telephone.

HOUSING

Lower-level, Newell Hall, telephone 321-2516

The housing program provides living facilities for full-time undergraduate students and promotes educational programs and activities which supplement the academic mission of the university. The Residence Staff and the elected executive board of the Resident Council strive to maintain an environment conducive to the individual's achievement of academic goals and development of self-reliance, leadership and life skills.

A referral service for off-campus housing is provided through the Housing Office. Students in need of off-campus housing may obtain listings of rooms and apartments available in the Towson area from the Director of Off-Campus Housing, Newell Hall 01.

Priority for campus residence is given to students who reside beyond a twenty-mile radius of any four-year state institution. Priority for space assignment is also given to students participating in specific educational programs.

All resident students must sign a yearly contract for college housing. A student who withdraws from housing forfeits the reserve space but may reapply should he/she decide to return. Students already in housing are given priority to return.

Residence facilities are available to students only when classes are in session. No student is permitted to remain in residence more than forty-eight hours after ceasing to attend classes.

PLACEMENT OFFICE

UU 217, telephone 321-2233

The Placement Office assists Towson students in their job search, by making them aware of job opportunities and by helping to prepare students to know how to search. There is a skill to finding a job.

A \$2.00 registration fee covers the cost of handling, duplicating and sending five copies of the student's file to graduate schools or employers.

The Placement Office maintains two bulletin boards for job search and other Placement Office announcements. These are located on the second floor of the University Union and in the lower level of Hawkins Hall.

Other services the Placement Office provides are:

- A file of employer literature and career information;
- An on-campus interviewing program with various employers;
- Seminars and workshops in resume writing, interviewing techniques and job search;
- Various Career Day Programs;
- Materials concerning financial assistance for graduate school (grants, fellowships, assistantships, etc.);
- A Placement Handbook for seniors.

A calendar of these events is posted in the Placement Office, on the job boards and also published in Towerlight.

HEALTH SERVICES

Health Center, telephone 321-2466

The Anita S. Dowell Health Center has a professional staff of physicians, psychiatrists, registered and practical nurses. Physician services are available daily during office hours, and in emergency situations at any time.

For serious illnesses, the student will be referred to his or her home or hospital for definitive treatment. With the student's knowledge and consent, the staff works closely with the parents and/or family physician in all important illnesses or accidents. For specific information, the student is referred to the Health Center booklet which is distributed to all new students.

A completed medical record is required of all students prior to the time of their admission. Certain exceptions may be made for those applicants whose religious principles preclude compliance and whose affiliation with a church is official and documented. Additional examinations are given when conditions warrant.

Chest X-rays or other proof of freedom from tuberculosis (i.e., a negative tuberculin test) are compulsory for all entering students.

Students are responsible for the costs of hospitalization, X-rays, or consultation. The University does not assume financial responsibility for any injury incurred on the athletic field or in any physical education class.

A student who has a physical condition which prevents complete participation in the regular physical education program may be permitted upon authorization of the University Physician and the Academic Standards Committee to take an adapted program or to be exempt from physical education requirements.

SICKNESS AND ACCIDENT INSURANCE

The University offers students the opportunity for year round health and accident insurance coverage at a cost of \$42.50 per year. Students may elect to waive their right to buy this insurance by signing a waiver at the time they pay their tuition.

LIBRARY FACILITIES

The Albert S. Cook Library was opened in 1969. It is a functional, open stack library near the center of the campus, and has a seating capacity of 1,500. Among its facilities are a reserve room, individual carrels for quiet study, typewriters, reading machines for microforms, equipment for listening to tapes and records, and Information Retrieval equipment. A new automated Circulation System provides accurate and efficient book control.

With a collection of over 325,000 volumes and subscriptions to over 2,500 periodical titles, the library is a growing and increasingly important part of the college community. In order to provide proper library resources to support the curriculum the faculty select any of the 25,000 volumes added each year. The Library has a U.S. Government Documents section, collections of textbooks and curriculum guides for elementary and secondary education, a collection of educational resource documents (ERIC), a collection of Early English Literature, a strong Women's Studies collection, and a collection of early American periodicals. The Reference Department Services include instruction to groups and individuals in finding information for class assignments.

In addition to the materials in the Cook Library, Towson students are fortunate to have nearby the resources of two major public library systems and the Maryland Historical Society Library. Towson also has a cooperative borrowing agreement with other state college libraries.

UNIVERSITY UNION

The complexity of society, campus bureaucracy, advances in communication, increasing enrollments, professional pressures on faculty, and changes within individuals are producing impersonal communities of intellectuals. University Union facilities are designed to overcome the impersonalization of the large college, serving both as an educational union for out-of-class activities and also as a service union. The University Union is vital, changing and alive. The Union houses educational and cultural programs of value for the entire academic community, complementing the college curriculum. The Union is also the place where resident and commuting students, faculty, staff and alumni alike can establish their social activities, relax and make the out-of-class time in their lives enjoyable. The University Union reflects to those who use it the character of the institution it serves.

The first level of the three-story brick structure includes a Snack Bar, Bookstore, Vending Area, Post Office, Locker Rooms, Box Office, T.V. Lounge, Billiards and Games Room, and eight bowling lanes. The second and main level of the building includes a cafeteria, a Dining Room and Lounge, Art Gallery, spacious main lounge area, candy and tobacco counter, student organization offices, campus reservations offices, Dining Services administrative offices, and University Union administrative offices. The third level of the building contains the Studies Skills Center, six conference rooms, a photographic laboratory, a reception lounge, and a large multi-purpose room which is divisible into three sections. Covered deck areas, lobbies, patios, and fountains round out the Union. Catering services are provided throughout the union upon request to the Food Services Department.

Although many may come to the Union for food, it differs from other campus buildings in the following respect: Individuals for the most part must choose to come to the Union. The activities housed in the building are

extra-curricular and voluntary. The students participating in special interest or governmental groups have an opportunity to experiment, assume responsibility, interact with the faculty and administration and by so doing come to know more about themselves and the College.

University Box Office

University Union, ground floor, telephone 321-2244
Towson Center Arena, Main Lobby

The University Box Office provides the University community with a variety of tickets to both on-campus and area events. Student sponsored activity tickets, theatre tickets, as well as tickets to the multitude of events at the Towson Center Arena are on sale at both locations. The Box Office also arranges off-campus travel for student groups.

Post Office

University Union, ground floor, telephone 321-2260

The University Post Office provides full postal services, excluding parcel post packages addressed to foreign countries, and is located on the ground floor of the University Union. It provides window service from 9:00 a.m. until 4:15 p.m. five days a week. All resident students are assigned a mailbox and should visit the Post Office to receive their box number and combination. Commuter students who desire a mailbox are assigned the remaining mailboxes on a first come, first served basis beginning the second full week of classes.

University Store

University Union, ground floor, telephone 321-2323

The University Store is located in the University Union and carries a complete line of textbooks, fiction, nonfiction paperbacks, reference, technical, and course outlines and aids.

Also for sale are general school supplies, typewriters, leather goods, college clothing, gifts, records, and toiletries. The University Store also carries a complete line of art supplies and a wide selection of art prints. Framing materials are also available. The University Store is also the headquarters for the official Towson State University ring.

BankAmericard and Master Charge credit cards are accepted for personal charges at the store.

Recreation Center

University Union, ground floor, telephone 321-2782

The Recreation Center is located on the first floor of the University Union and is divided into two central areas of recreational activity. The Billiard Area, located in the upper level provides an extensive variety of leisure entertainment in the form of activities ranging from billiards and table tennis to coin-operated air hockey and amusement machines. The Bowling Lane Area, located in the lower level, is equipped with eight American Bowling Congress approved lanes and a snack bar facility.

The Recreation Center provides additional sport activities in the form of League competition; there are numerous billiard and bowling leagues. Also provided is a complete newspaper subscription service, including out-of-town papers.

STUDENT-GOVERNMENT ASSOCIATION

University Union, ground floor, telephone 321-2711

The Student Government Association is an integral part of

the college community and is recognized as a contributing organization in the overall government of the University.

Each full-time student is a member of the SGA. The organization consists of an Executive committee, composed of the President, Vice-President and Treasurer of the SGA and various appointed officers, and a Student Senate composed of fifteen senators, 14 elected at large and one elected from the freshman class in the fall semester.

The broad objectives of the SGA are outlined in the Student Government Association Constitution:

1. To improve student awareness and welfare.
2. To foster the recognition of the rights and responsibilities of students.
3. To responsibly fulfill those privileges of self-government.

The activities of the Student Government Association primarily concern the educational and social experiences of the student as a member of the college community. These activities are justified in a collegiate setting by the extent to which they contribute to the overall educational experience of each student. All students are invited to aid the SGA in its expressed goals and objectives.

The Student Government Association sponsors such activities as Speaker Series, Tutorial Projects, an Outstanding Faculty Grant Program and a Student Book Exchange. The SGA also assists in funding an on-campus chapter of Planned Parenthood, Inc., the Student Day Care Center, the Visiting Scholars Program, and the campus radio station WCVT, as well as dances, movies and cruises on the Port Welcome.

STUDENT ORGANIZATIONS

University Union, SGA Office, ext. 2711

Recognized student organizations may reserve campus facilities without cost. To become a recognized organization, groups must follow SGA procedures, available in their offices in the University Union.

Recognized student groups include sororities, fraternities, clubs, honor societies, and political, religious service, and athletic organizations. All student organizations coordinate their activities through the SGA Director of Organizations.

Student publications are: *Towerlight*, the weekly official student newspaper; *Tower Echoes*, the Yearbook; the *Journal of International Affairs*; and *The Grub Street Wit*.

ATHLETIC ACTIVITIES

Towson State University is committed to comprehensive intercollegiate and intramural athletic programs for men and women as integral parts of the student's total educational experience.

Opportunities are provided at varying levels of competition for all students who desire to participate. The men's program belongs to the National Collegiate Athletic Association, the Mason-Dixon Conference and the Eastern College Athletic Conference. The varsity schedules include many of the finest universities and colleges in the east. Competition on the varsity level includes football, soccer, cross country, basketball, wrestling, swimming, gymnastics, baseball, lacrosse, tennis, track and golf.

The Women's Intercollegiate Athletics program women's intercollegiate program includes competition on a varsity and junior varsity level in basketball, field hockey, gymnastics, lacrosse, swimming, tennis, volleyball, track and

softball. The University is a member of the Association of Intercollegiate Athletics for Women, the Maryland Association of Intercollegiate Athletics for Women and the Eastern Association of Intercollegiate Athletics for Women.

Both the men's and women's athletic teams, under the auspices of the Towson State University Athletic Association, compete for state, conference, regional and national honors. Facilities and leadership are provided for intramural sports during all seasons. Students are encouraged to participate according to their interests.

INTRAMURALS AND RECREATIONAL SPORTS

Burdick 150, telephone 321-2367

Students, faculty, and staff are encouraged to participate in intramurals competition. The University offers an extensive program in twenty-one different sports including table tennis, box lacrosse, coed volleyball, track and field, rugby, and badminton. Most intramurals activities take place in Burdick Hall or on the adjacent playing fields. Entry forms, schedules, facilities, supervision, and officials can be arranged for individual and team sports by contacting the Intramurals Office.

The Recreation Program emphasizes self-motivated, impromptu sports activities. Students, faculty, and staff are invited to use the swimming, basketball, tennis, weight training, volleyball, badminton, and squash-raquetball facilities. The Department of Intramurals and Recreation publishes a comprehensive schedule of activities each semester.

SPEECH AND HEARING CLINIC

Diagnostic and therapeutic services of the Speech, Language and Hearing Clinic are available, without charge, to all members of the Towson State faculty, staff, and student body. Speech, Hearing, and Language evaluations for all ages and all types of communicative disorders are available. Audiological services include complete hearing and hearing aid evaluations. Students and faculty members can make appointments in person in Van Bokkelen 211 or by phoning extension 3095.

Therapeutic services are provided for children and adults experiencing difficulty in comprehending and using oral communication. Therapy is provided for the following types of communication disorders:

1. Language Pathology
2. Articulation
3. Cleft Palate
4. Stuttering
5. Hard of Hearing
6. Voice
7. Foreign Dialect
8. Aphasia
9. Laryngectomy
10. Others

Individual and/or group therapy is conducted by upper-class and graduate students under supervision of faculty members holding certification and licensure in Speech Pathology and/or Audiology.

OFFICE OF VETERANS' AFFAIRS

The Office of Veterans' Affairs (OVA) provides coordination between veteran/dependent students and the Balti-

more Regional Office of the Veterans Administration. The OVA establishes procedures and prepares forms and correspondence for eligible students to receive their educational benefits. Additionally, the OVA monitors class attendance and evaluates academic progress to ensure that satisfactory progress of those receiving benefits is maintained. The OVA also supervises the employment of VA work/study students.

Students taking courses at another institution concurrently with courses at Towson State may be certified for both institutions by the Towson OVA.

Students may visit the OVA daily from 8:30 a.m.-4:30 p.m. without appointments.

The normal time for processing an enrollment certifica-

tion is six weeks. Certification is not automatic. The proper VA forms must be completed for each semester; however, continuous enrollment for uninterrupted attendance from a fall semester through summer sessions may be accomplished on one certification form.

It is the responsibility of the individual to apply for educational benefits at the OVA and to notify the OVA when entitlement to benefits changes or when a change from a degree program or to the number of credits being pursued occurs.

The purpose of veterans' benefits at Towson State University is to permit those eligible for the benefits to obtain degrees. It is, therefore, imperative that each veteran be either a degree candidate or in a VA approved program.



Academic Regulations

REGISTRATION

Each student is assigned a time to register. Students are not permitted to attend classes without having completed registration. A late registration fee is assessed for registering after the time assigned and within the late registration period. Students are expected to discharge all financial obligations to the institution before being permitted to register.

CLASSIFICATION OF STUDENTS

Students are classified according to the number of semester hours passed as follows: freshmen, 0-24 semester hours; sophomores, 25-55 semester hours; juniors, 56-89 semester hours; seniors, 90 semester hours or above.

TRANSFER CREDIT

Credit is accepted by Towson State University for a course completed at any regionally accredited college or university. This credit will count toward graduation but will not be used in computing the academic average required for graduation.

Students with 64 or fewer credits at the completion of the work taken for transfer credit may take courses at any regionally accredited educational institution (two or four year institutions).

Students with more than 64 and less than 90 credits at the completion of work taken for transfer may take courses at any accredited four year institution.

Courses must be in programs offered at Towson State University.

Courses must not have been previously accepted for transfer credit or completed for credit at Towson State University.

A grade of "D" or higher must be attained for students electing or required to graduate under the 120 credit graduation policy.

Students may not transfer more than 64 credits to Towson State University from a two-year institution.

Students taking courses as part of the last 30 credits required for graduation or for major credit must obtain prior approval of the Towson State University Academic Standards Committee.

Students taking courses for credit toward the major must obtain prior approval of the Department of the major.

CREDIT HOURS

The unit of credit is the semester hour. It is defined as one 50-minute class per week (or its equivalent) for one semester. A three-hour class meets three 50-minute periods or two 75-minute periods a week for one semester. Laboratory and studio classes normally require two or three hours in class as the equivalent of one semester hour. Two hours of preparation is usually necessary for each hour in class for the average student.

PROGRAM TRANSFER

Students in good standing in either the teacher education or the arts and sciences program may transfer to the other program by filing a request form with the Registrar, as Secretary to the Academic Standards Committee. Upon approval of the Academic Standards Committee, the transfer will be effective for the semester following the one in which the request is made.

Those wishing to transfer to the arts and sciences pro-

gram will be obligated in the amount of \$100 for each semester of work completed in the teacher education program if the teaching pledge was signed in lieu of tuition payment.

EXEMPTION FROM REQUIRED COURSES

Believing that students should not be required to devote time to courses the substances of which they have mastered, the University provides opportunity to qualify for exemption from required courses. Towson students may apply through the appropriate academic department to be examined for exemption from courses required of all students and those required in a major field. When exempted, the student is privileged to choose an elective in any department or an advanced course in the same department. Required courses in the following fields are at present involved in this plan: biology, English, geography, mathematics, music, speech, history, political science, and sociology. Credit for Experience and previous Learning is an option also open to students. See Admissions.

STUDENT LOAD

The normal student load is 15-18 semester hours of credit each semester.

Students may take up to 19 semester hours for credit. It is suggested that students possess a minimum cumulative average of 2.00 to take 18 semester hours and a cumulative average of 2.50 to take 19 semester hours.

Students with a 3.25 cumulative average based on at least 30 hours taken at Towson State University may carry 20 hours. In his last semester of his senior year a student may carry 20 semester hours provided the number is necessary to be graduated and provided his cumulative average is 2.50 or better.

Students with a 3.50 cumulative average or better, based on at least 30 hours taken at Towson State University may carry 21 hours.

No student will be permitted to carry more than 21 hours except by special permission of the Academic Standards Committee.

A student wishing to carry less than 12 hours must obtain the approval of the Vice-President for Student Affairs.

Students must have the approval of the Registrar to register for more than 19 semester hours during any one semester.

AUDITING COURSES

A student may audit a course with the permission of the instructor of the course. No credit may be earned in a course which is audited. Audited courses will not appear on the student's record. Students who wish to take the course for credit may do so only during the Change of Schedule Period as an added course.

CHANGE OF COURSE SCHEDULE

All changes in a student's schedule of courses (adding or dropping a course or a change in sections or credits) are valid only if the student completes the Course Schedule Change Form and files it with the Registrar. Failure to do so will result in a grade of "F" or "FX" in the course dropped and no credit in the course added. The grade will appear on the Grade Roster of the course and the student's permanent record.

No student may enter a class after the expiration of the change of schedule period contained in the academic calendar. Exceptions to this will be considered only after approval of the department chairman of the course involved and the Dean of the University.

Entering freshmen wishing to obtain waiver of courses for the honors plan may arrange to take Advanced Placement Tests of the College Entrance Examination Board in fields in which they feel qualified. Arrangements to take these examinations in May of the high school senior year may be made through the school counselor or through the College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey.

WITHDRAWAL FROM A COURSE

Students wishing to drop a course may do so as follows:
Students may drop up to the end of the first two weeks of classes and no grade will be recorded.

Students who have not dropped a course at the end of the first two weeks of classes may withdraw from a course up to three weeks after the mid-semester date. Students withdrawing during this period will have the grade of "W" recorded for the course. This grade may be removed by repeating the course.

Students registered for a course who do not drop or withdraw during the periods referred to above must receive grades of A, B, C, D, F or I as determined by the faculty member. Those students who register and do not receive a grade from the instructor because of non-attendance, will be assigned a grade of "FX".

**MARKING AND POINT SYSTEM FOR STUDENTS
EFFECTIVE SEPTEMBER 1976**

A four-point system is used to identify quality of academic work. The letter "A" designates work of superior quality; "B", work of good quality; "C", work of satisfactory quality; "D", work of less than satisfactory quality but allowable for credit, subject to the restrictions under the Degree Requirements; "F", work of such unsatisfactory quality that no credit is given. Grades of "PS," "PE," "S" are equivalent to a grade of "C" or higher. The grade of "S" (Satisfactory) or "U" is assigned for non-credit courses, student teaching and certain designated courses in which there is no letter grading. A grade of "FX" is assigned when a student registers for a course and does not attend or neglects to withdraw officially from the course, or from the college, by the last published date to drop a course. The grade of "PS" (Pass) is assigned for a course elected on the Pass Option when the student receives a grade of "A," "B," or "C." The student that receives a grade of "D" or "F" on the Pass Option will have the "D" or "F" recorded on the permanent record and used in the computation of averages. The grade of "PE" is assigned for courses passed under the Credit for Experience or Previous Learning option. All grades are recorded on the student's permanent record.

A mark of "I" (incomplete because of illness or other reason beyond the control of the student) at the end of a semester carries no credit. It is the responsibility of the student to make arrangements to complete course requirements for the removal of the "I". Unless such a course is satisfactorily completed by the last day of the next regular semester, the grade for the course becomes "F".

The grade of "S" and "U" will be used for courses offered for skill development. The student receives an "S" where work of "C" or higher is accomplished. A student receives a grade of "U" where work of "D," "F," or "FX"

is accomplished. "S" being described as a level of competence sufficient to advance to the next course. i.e. "S" in communication skills competence qualified to advance to 101, Preparation for College Writing. "S" in 101 indicates competence to advance to 102, Freshman Composition.

The following quality point values are used to compute grade point averages.

A—4 quality points	D—1 quality point
B—3 quality points	F, FX—0 quality points
C—2 quality points	

Grades of "I," "PS," "PE," "W," "S" and "U" are not used in computation of averages.

The grade-point average is computed by multiplying the hours of credit in a course by the points assigned to the grade earned in the course. Totaling the credit hours points for all courses taken in the semester, and dividing the total number of points by the total number of hours of credit attempted yields the grade-point average for the semester.

For example:

4 hours of A	(4 points each)	16 points
4 hours of B	(3 points each)	12 points
3 hours of C	(2 points each)	 6 points
3 hours of D	(1 point each)	 3 points
2 hours of F	(No Credit Given)	 0 points
2 hours of FX	(No Credit Given)	 0 points
18 Total hours attempted		37 Total points

Dividing 37 by 18, the student's grade-point average for this semester is found to be 2.05.

The student's cumulative grade-point average is found by dividing the total points earned in all courses completed at Towson by the total number of credit hours attempted at Towson (excluding from this computation those credit hours attempted during the period 1 September 1973 to 31 August 1976 for which the grade of "NC" was assigned). For example: a junior has attempted 76 credit hours and has earned a total of 190 points. His cumulative grade-point average is 2.50.

REPEATING OF COURSES

Students may repeat a course only once where credit has been earned or a mark of "F," or "FX" has been awarded, except by prior approval of the Academic Standards Committee. The mark of "W" will not replace a previously awarded grade. When the course is repeated, the student will receive the credits for the course counted once and the higher of the two grades if repeated for the first time after 1 September 1970. Students repeating courses must indicate this at the time of registration. Upon completion of the repeated course a repeated course form must be submitted to the Registrar by the student concerned. The lower of the marks earned is not maintained on the student's permanent record. This applies only to courses taken at Towson and must be repeated at Towson.

STANDARDS OF WORK REQUIRED

Philosophical Premises

Academic Standards are set to insure that a degree from Towson signifies student work meeting or exceeding a particular level of excellence.

The intent is to reinforce appropriate learning behavior, and to help the student work independently and develop intellectually in a variety of ways.

STANDARDS FOR FULL-TIME STUDENTS

In order to remain in the college, a student must possess a cumulative point average as indicated below.

REQUIRED MINIMUM GRADE POINT AVERAGE TO BE IN COLLEGE

Credits Attempted	Minimum GPA	Minimum Level of Satisfactory Progress
1-19	1.10	1.75
20-29	1.50	1.85
30-39	1.65	1.85
40-49	1.80	1.95
50-59	1.90	1.95
60 and above	2.00	2.00

No student will be dismissed at the completion of a semester when a semester average of 2.00 or higher has been attained, providing a minimum of 12 semester hours were attempted.

TRANSFER STUDENTS

A transfer student, at the end of the first semester, must earn a grade point average as shown above on total credits attempted. However, no student will be required to earn more than a 1.50 grade point average during the first semester. In succeeding semesters a transfer student must attain a grade point average as shown above. (For instance, a student who has earned 52 credits at the end of two semesters at Towson must have a grade point average of not less than 1.90 at that time in order to remain a full time day student.)

FIRST TIME FRESHMEN

Students entering college for the first time must meet the standards for full time students after two semesters of study.

NORMAL PROGRESS AND MAXIMUM LENGTH OF ATTENDANCE

It is expected that a student will attain one hundred and twenty semester hours of credit and complete graduation requirements in eight semesters of study allowing an average credit load of fifteen hours per semester. However, if necessary, a student will be permitted a maximum of ten semesters of study allowing an average credit load of twelve hours per semester.

The number of semesters of study for transfer students will be determined by dividing the number of credits transferred in by 15, rounding the answer to the nearest lower whole number. For instance, a student transferring 33 hours will be considered to have completed two semesters of study.

PASS OPTION

Students may be able to elect on a voluntary basis twelve hours toward their degree for which they may be graded on a pass/D/F basis. If a student registers for more than six semester hours in one semester, only six may be counted toward graduation. This option is not available for courses required for a major or for certification in Teacher Education unless special permission is obtained from the department concerned. This option must be elected prior to the end of the second week of classes. This applies to electing the option or, if elected, to changing the option. The faculty may obtain from the Registrar the names of students in their classes who have elected the pass option.

PROCEDURES FOR REINSTATEMENT

Those no longer in good standing may appeal for reinstatement. In most cases students who are dismissed for academic purposes will be expected to remain out of the day

school for two semesters. Those students who bring their cumulative average up to the GPA required by taking courses in the Evening, Summer Program and January Session are eligible for reinstatement; however, a student must take courses in which letter grades are given in order to have this work apply before the completion of the one year period. A student must achieve an average of 2.00 on all work taken during the period of academic dismissal. Up to 18 credits can be taken in the Evening and Summer Program for this purpose. Deadline for readmission is 15 August and 15 December.

In evaluating requests for reinstatement, the Academic Standards Committee, without changing previous policies, will weigh heavily an indication of improved performance. The personal development of each student is considered. The University may exercise its right to ask a student to withdraw at any time.

DEGREE REQUIREMENTS

Bachelor of Arts Degree

Those wishing to qualify for a Bachelor of Arts degree in lieu of the Bachelor of Science degree may do so by fulfilling the requirements for the Bachelor of Science degree and by completing the intermediate courses or the equivalent of a modern foreign language.

Bachelor of Science Degree

A student who satisfactorily meets the following requirements will receive the Bachelor of Science degree.

1. A minimum of one hundred twenty hours and a maximum of one hundred thirty-five hours of college credits which must include English 1501.102 or its equivalent, thirty-two hours of upper division work, and the general university requirements. Work taken at a two year institution will not count as part of the 32 upper division hours required.
2. Credit in the courses required of all students, of which English 1501.102 or its equivalent must be passed with a grade of C or higher.
3. Credit in the required courses of the curriculum the student has elected.
4. Successful completion of a major.

With prior approval of the Standards Committee, a student may substitute an interdisciplinary program designed to meet his/her particular objectives.

A mark of "C" or higher is required in all courses taken in the department and applied toward the major or minor of that department. If this standard is not attained, the student must repeat the course or substitute another course in the field at the direction of the department.

5. A cumulative average of at least 2.00.
6. Record of attendance at the University for at least one academic year during which thirty semester hours of credit were earned. A student must earn the final thirty credits at the University unless permission is granted by the Academic Standards Committee to earn the credits at another institution.
7. Demonstration of personal qualities which are expected of an educated person.
8. Filing with the Registrar a Graduation Application according to following schedule:

December graduates must file an application by May 31st of the year of graduation.

June graduates must file by September 30th of the year prior to the date of graduation.

September graduates must file by March 31st of the year of graduation.

The graduation application will include the optional experiences selected by the student under Group V of the General University Requirements.

A student who entered a college as a degree candidate September 1972 and thereafter must earn a minimum of 32 hours of upper division work as one of the requirements for graduation at Towson State University.

The undergraduate records of all persons receiving a bachelor's degree are closed six weeks after the official date of graduation. Any change to the permanent record involving grades, incompletes, or other academic information must be made by this date.

GENERAL UNIVERSITY REQUIREMENTS OF ALL STUDENTS

The New General University Requirements affect all incoming freshmen. However, students returning to Towson State University or transfer students have the option of following the plans under which they were initially admitted, provided no more than seven years have elapsed. They may, however, elect to follow the new plan.

All students are reminded that the adoption of a new set of general university requirements does not change their department requirements or the requirements for State certification of teacher education students. Students should consult their advisor if they have any questions regarding their degree programs. A minimum of 120 credits is required for graduation from Towson State University. In earning this number of credits the student must fulfill both the general university requirements (listed below) and the department major or program requirements.

THE GENERAL UNIVERSITY REQUIREMENTS (GROUPS I, II, III, AND V) MAY BE FULFILLED WITH ANY COURSE CARRYING TWO OR MORE CREDITS WITHIN THE PRESCRIBED DISCIPLINES PROVIDING YOU MEET THE COURSE PREREQUISITES.

COURSE WORK USED TO FULFILL GROUP IV (A, B, AND C) MUST MEET THE REQUIREMENTS AS SPECIFICALLY STATED FOR THESE "REQUIRED EXPERIENCES."

THE LIST OF RECOMMENDED GENERAL UNIVERSITY REQUIREMENT COURSES CAN BE FOUND ON PAGES 22 AND 23 OF THIS CATALOG.

GROUP I: HUMANITIES AND FINE ARTS

A. Art — Music — Theatre Arts: Two one-semester courses; each course must be from a different discipline.

B. English — History — Modern Language — Philosophy: Four one-semester courses; three of the four courses must be from different disciplines.

NOTE: THE FOLLOWING COURSES MAY NOT BE USED TO MEET THE REQUIREMENTS FOR THIS GROUP —

GENERAL STUDIES 4901.101, PREPARATION FOR COLLEGE WRITING

GENERAL STUDIES 4901.110, EXPLORATIONS IN COMMUNICATION SKILLS

ENGLISH 1501.102, COLLEGE WRITING AND ENGLISH 1501.104 ADVANCED FRESHMAN ENGLISH

THE FIRST SEMESTER OF ANY ELEMENTARY COURSE IN A MODERN LANGUAGE

GROUP II: NATURAL SCIENCES

Biology — Chemistry — Computer Science — Mathematics — Physical Science — Physics: Three one-semester courses; each course must be from a different discipline.

GROUP III: SOCIAL AND BEHAVIORAL SCIENCES

Anthropology — Economics — Geography — Political Science — Psychology — Sociology: Four one-semester courses; each course must be from a different discipline.

GROUP IV: REQUIRED EXPERIENCES

A. A total of one semester hour earned in one or more Physical Education Activity courses numbered 0835.011-0835.099.

B. English 1501.102, and 104

C. One additional one-semester college level writing course.

NOTE: THE FOLLOWING COURSES MAY NOT BE USED TO MEET THE REQUIREMENT FOR THIS GROUP —

GENERAL STUDIES 4901.101, PREPARATION FOR COLLEGE WRITING

GENERAL STUDIES 4901.110, EXPLORATIONS IN COMMUNICATION SKILLS

THE SPECIFIC COLLEGE LEVEL WRITING COURSE REQUIRED IN GROUP IV, GENERAL UNIVERSITY REQUIREMENTS, EFFECTIVE FOR STUDENTS ENTERING DEGREE CANDIDACY SEPTEMBER 1977, WILL BE ANNOUNCED BY ACADEMIC DEPARTMENTS AS PART OF THE MAJOR REQUIREMENTS.

GROUP V: ADDITIONAL ACADEMIC EXPERIENCES

A. Business Administration — Education — General Studies — Health — Speech — Speech Pathology and Audiology — Women's Studies: Two one-semester courses, each course must be from a different discipline. List of approved courses can be found on page 23.

OR

B. Any disciplines listed in Groups I (A & B), II, III, IV (A), and V (A). Two one-semester upper division courses, providing the courses are not in the student's major or minor. Each course must be from a different discipline.

OR

C. One one-semester course meeting the requirements of Group V (A) and one one-semester course meeting the requirements of Group V (B).

GENERAL UNIVERSITY REQUIREMENTS FOR TRANSFER STUDENTS

OPTION I — Transfer students may satisfy all Towson General University Requirements by presenting an AA degree from an articulated program at an accredited community college, provided that they have completed an advanced expository writing course in addition to the freshman composition requirements at their transfer institution.

OPTION II — Transfer students who present an AA degree according to the guidelines in Option I, but who have not completed an advanced expository writing course prior to entering TSU can take the second college level writing course at Towson to fulfill their General University Requirements.

OPTION III — Transfer students, who have been awarded a minimum of 56 credits in transfer at the time of their original enrollment will be given credit for having met the General University Requirements provided all of the following requirements are met:

1. At the time of transfer, the student has taken the equivalent of Freshman Composition (English 1501.102).

Note: English 1501.102 at Towson State University is equivalent to the second semester of a two semester composition course.

2. At the time of transfer, the student has taken a one-semester college writing course equivalent to the Second Writing Course offered at Towson State University.

Note: The student may meet this requirement at Towson State University after admission.

3. At the time of transfer, the student has completed at least 48 semester hours credit (or 18 one-semester courses) in the Arts and Sciences.

Note: If the student has not completed the Second Writing Course at the time of transfer to Towson State University, 45 semester hours credit (or 17 one-semester courses) in the Arts and Sciences will be required. The student, however, must complete the Second Writing Course prior to graduation from the University.

4. At the time of transfer, the student has taken course work in a minimum of 11 disciplines from among the following:

Anthropology	Mass Communications
Art	Mathematics
Biology	Modern Languages
Business Administration	Music
Chemistry	Philosophy/Religion
Communication Arts	Physical Education
& Sciences	Physical Science
Computer Science	Physics
Economics	Political Science
Education	Psychology
English	Sociology
General Studies	Speech
Geography	Theatre Arts
Health Science	Women's Studies
History	

5. At the time of transfer, the student has completed the following minimum course requirement (reference to Groups are group requirements for native students):

- a. One course in Physical Education.
- b. One course in a discipline from Group I A and one course from a discipline from Group I B (excluding English 1501.102, Freshman Composition).
- c. Two courses divided among two disciplines in Group II.
- d. Two courses divided among two disciplines in Group III.

TRANSFER STUDENTS WHO HAVE NOT COMPLETED THE GENERAL UNIVERSITY REQUIREMENTS UNDER OPTION I, II, OR III AT THE TIME OF TRANSFER WILL BE REQUIRED TO COMPLY WITH THE GENERAL REQUIREMENTS FOR NATIVE STUDENTS AT TOWSON STATE UNIVERSITY.

OPTIONAL GENERAL UNIVERSITY REQUIREMENTS PLAN

The optional general university requirement plan is permissible under certain circumstances when approved by the Curriculum Committee. Additional information available in the Office of the Registrar.

Students are responsible for meeting in full the requirements for graduation as set forth in the University Bulletin. When the requirements are changed after a student has enrolled in the University, the student has the option of meeting in full the graduation requirements that were in effect at the time of his/her initial college enrollment as a degree candidate or those that are in effect at the time of graduation, if graduation occurs within seven years of date of admission. If the student does not complete graduation requirements within seven years, he/she must meet the requirements in effect for his/her graduating class. When the University withdraws former required courses, the Standards Committee will approve substitutions for students graduating under the former requirements. The student's advisor assists in the planning of a program, but the final responsibility for meeting the requirements for graduation rests with the student.

COURSES RECOMMENDED FOR SATISFYING GENERAL UNIVERSITY REQUIREMENTS

GROUP IA

Art

All 100 level art courses without prerequisites will satisfy Group IA General University Requirements. In addition 1001.206 and 1001.216 may be used to satisfy General University Requirements.

Music

All lower division (100-200) music courses of two or more credits without prerequisites will satisfy Group IA General University Requirements.

Theatre Arts

All 100 level theatre courses will satisfy Group IA General University Requirements. In addition 1007.221 and 1007.231 may be used.

GROUP IB

English

All 200 division English courses with the exception of 1501.283 will satisfy Group IB General University Requirements.

History

All lower division (100-200) history courses with the exception of 2205.290 will satisfy Group IB General University Requirements.

Modern Languages

The first semester of any elementary Modern Language course cannot be used for fulfilling General University Requirements. All lower level division Modern Language

courses will satisfy Group IB General University Requirements.

Philosophy

All lower division (100-200) Philosophy courses will satisfy Group IB General University Requirements.

GROUP II

Biology

0401.101 Contemporary General Biology will satisfy Group II General University Requirements.

Chemistry

All 100 level Chemistry courses will satisfy Group II General University Requirements.

Computer Science

All lower division Computer Science courses will satisfy Group II General University Requirements.

Mathematics

All lower level mathematic courses without prerequisite will satisfy Group II General University Requirements.

Physical Science

All 100 level physical science courses without prerequisites will satisfy Group II General University Requirements.

Physics

All lower division physics courses without prerequisites will satisfy Group II General University Requirements. In addition 1902.313 may be used to satisfy General University Requirement.

GROUP III

Anthropology

All lower division anthropology courses without prerequisites will satisfy Group II General University Requirements.

Geography

All lower division geography courses with the exceptions of 2206.121 and 2206.299 will satisfy Group III General University Requirements.

Psychology

All 100 level psychology courses with the exception of 2001.111 will satisfy Group III General University Requirements.

Sociology

All 100 level Sociology courses will satisfy Group III General University Requirements.

Political Science

All 100 level political science courses will satisfy Group III General University Requirements.

Economics

All 100 level economic courses without prerequisites will satisfy Group III General University Requirements.

GROUP IV

All activity courses 0835.010-298 fulfill General University Requirements with the exception of the following courses: 0835.101-298, Professional Lab Skills, 0835.245, 0835.247-248, 0835.281-282, 0835.283 and 0835.284.

GROUP VA

The following courses have been approved for Group VA:

0506.101	Introduction to Business	(BUAD)
0801.201	The Parenting Process	(EDUC)
0801.407	Contemporary Issues in Education	(EDUC)
1201.007	Health Challenge for 70's	(HLTH)
1201.101	Current Health Problems	(HLTH)
1220.105	Speech & Language Development	(SPPA)
1506.131	Fundamentals of Speech	(SPCH)
2296.231	Women in Perspective	(WMST)
2296.332	Women's Culture and Creativity	(WMST)
4901.198	Philosophy of General Studies	(GENL)

Students are responsible for meeting in full the requirements for graduation as set forth in the University Bulletin. When the requirements are changed after a student has enrolled in the University, the student has the option of meeting in full the graduation requirements that were in effect at the time of his/her initial college enrollment as a degree candidate or those that are in effect at the time of graduation, if graduation occurs within seven years of date of admission. If the student does not complete graduation requirements within seven years, he/she must meet the requirements in effect for his/her graduating class. When the University withdraws former required courses, the Standards Committee will approve substitutions for students graduating under the former requirements. The student's advisor assists in the planning of a program, but the final responsibility for meeting the requirements for graduation rests with the student.

ATTENDANCE

Students are expected to attend all classes. Each faculty member sets his/her own policy on absences. Policies vary and it is the responsibility of the student to understand clearly the absence policy of each instructor and to act accordingly. Students are expected to notify the Health Center and instructors by phone or in writing of any absence exceeding three days.

WITHDRAWALS

A student wishing to withdrawal from the University is to obtain a withdrawal card from the Office of the Assistant to the Vice-President for Student Affairs. Before the withdrawal is official, the student must submit the completed withdrawal card to the Office of the Registrar.

A student who withdraws subsequent to the last day to drop a course will be assigned the grade of "FX" unless withdrawal is for medical reasons or other extenuating circumstances. If withdrawal is for medical reasons and is so documented, a grade of "W" will be assigned for all courses in which the student is registered. If withdrawal is for extenuating circumstances and can be documented, an appeal should be addressed to the Academic Standards Committee.

SEMESTER OF STUDY

Each semester a student registers and has not cancelled or withdrawn prior to the first day of class counts as a semester of study.

Withdrawal for medical reasons or entry into the Armed Forces will not count as a semester of study if verified.

Those students withdrawing from the University who intend to return must comply with the deadlines established for readmission. If readmission procedures are completed by 30 April for the fall semester or 30 November for the

spring semester they will be given the opportunity to pre-register. Final deadlines for submission of the request for readmission are 15 August for the fall semester and 15 December for the spring semester.

TRANSCRIPTS OF ACADEMIC RECORD

Transcripts will be sent only upon written request of the student. Transcript request forms may be obtained at the Office of the Registrar. The University requires at least two weeks notice for issuance of a transcript record. A fee of \$2.00 will be assessed for each request.

A student with an outstanding indebtedness to the institution will not be eligible for transcripts of record.

HONORS PROGRAMS

Under the direction of a University Honors Programs Board, a number of departments of the University offer Honors Programs in their disciplines or cooperatively offer interdisciplinary Honors Programs. The student who completes an approved program will receive a diploma with the designation Bachelor of Arts or Bachelor of Science with honors in the appropriate discipline.

The program is developed for the junior and senior years and includes 9 to 12 semester hours credit in seminars, directed readings, and research projects. A senior thesis is required as well as an oral defense of the thesis. A candidate will also be expected to make a respectable showing on the Graduate Record Examination.

To be admitted to the program a student must present a cumulative average of 3.25 and a 3.50 cumulative average in his/her discipline. To graduate from the program the recipient of an Honors degree must present a 3.25 cumulative average and a 3.5 cumulative average in his/her discipline.

Details of the departmental plans may be obtained from the office of the department chairman.

The Dean's List is published following the completion of each fall and spring semester. Students who are degree candidates and complete a minimum of 12 semester hours

for credit in regular grade granting courses with a semester average of 3.50 or higher will be so honored.

Graduation with Honors

To receive a bachelor's degree with honors, a student must have completed work taken at Towson State University with the following cumulative grade point average:

3.75 to 4.00 Summa Cum Laude

3.50 to 3.74 Magna Cum Laude

3.25 to 3.49 Cum Laude

Students must have, in addition, a 3.25 or better average for work completed at other institutions and a minimum of 56 semester hours of work at Towson State University.

Transfer students eligible for Summa Cum Laude awards based on work completed at Towson State University must be approved by the Academic Standards Committee.

To receive a bachelor's degree with honors in a discipline, a student must have completed a departmental honors program and be recommended for honors by that department.

Students who do not qualify for honors because of their overall GPA may petition the Academic Standards Committee if they meet the following criteria:

"A student who in his/her last 60 credits at Towson State University attained a cumulative average of 3.50 or higher."

The student who is approved for graduation honors listed above will receive the Cum Laude honor from Towson State University.

Academic Regulations are effective the date of the current Catalog (unless otherwise stated) and are applicable to all students regardless of date of initial college enrollment as a degree candidate.

ACADEMIC ADVISING

For assistance in reviewing and understanding academic regulations, contact the Academic Advising Office, room 216, University Center.

The University Curriculum

THE ARTS AND SCIENCES PROGRAM

The Arts and Sciences program at Towson offers to students a broad background in the liberal arts which will help prepare them to pursue a variety of careers. The section which follows describes some of the career areas for which programs at Towson provide preparation. Students may obtain further information from their advisors regarding the kind of preparation most appropriate to their career interests.

Students who plan to attend graduate or professional school are urged to examine carefully the catalog of the institution they wish to attend so that they can obtain the most appropriate preparation at Towson. In some professions, such as law and medicine, it is usually advisable for the student to complete a four-year liberal arts course before beginning professional study. In some others, students should plan to transfer to professional school after one, two, or three years of liberal arts preparation. Current catalogues of graduate and professional schools are on file in the Admissions Office for interested students. The Dean of the University has available additional information regarding opportunities for advanced study, including fellowships and scholarships.

BUSINESS AND INDUSTRY

The program in Business Administration offers career preparation to students planning to seek employment in a variety of positions in business or industry following graduation. Special areas of concentration within the program are available in accounting, finance, marketing, personnel and international business. This permits students to combine a broad general background in business and intensive preparation in a specialty of their choice. The program in Business Administration provides preparation to students planning to enter such diverse career specialties as accounting, administration and management, credit, sales, personnel, advertising, marketing, and purchasing in a variety of business and industries including banking, insurance, wholesale and retail firms, manufacturing, transportation, and communications.

As a supplement to their training in business administration, students wishing to pursue careers in business in advertising, public relations, or writing should place heavy emphasis upon the improvement of their skills in human relations and oral and written communications through coursework in English and Mass Communications. Students wishing to become personnel workers in business should supplement their basic preparation in business administration with additional courses in psychology, English, and Mass Communications in order to enhance their skills. Students wishing to work in business as computer programmers or systems analysts should include as much work as possible in mathematics and computer science in addition to their basic preparation in business administration.

Students interested in pursuing a scientific career in business or industry may select from a number of programs available at Towson. For example, the major in Chemistry may prepare them for work in industrial research and product development, quality control, and industrial sales and management. The major in physics, supplemented by courses in computer science, mathematics, chemistry, or biology, is appropriate training for

students wishing to enter the field of scientific research in industry.

GOVERNMENT AND PUBLIC SERVICE

Many of the career specialties described above, including accounting, administration, management, and personnel work, may be pursued in government as well as in business and industry. Preparation for such work in government would not differ greatly from that required for business.

Some careers in government such as the Foreign Service of the Department of State, for example, do require special preparation. Students considering a career in the Foreign Service may be interested in the program in International Studies at Towson, an interdisciplinary system of courses representing business administration, economics, geography and environmental planning, political science, and sociology. The program in International Studies permits students to acquire a broad general background in each of these areas and, if they wish, to gain expertise in a particular geographical region such as Europe, Africa, or the Middle East. Students wishing to pursue a career in the Foreign Service are strongly urged to strengthen their skills in the use of the English language and also to achieve high proficiency in at least one foreign language.

In local government an increasing number of law enforcement and correction personnel are required. Students wishing to pursue a career in law enforcement and correction will find the Law Enforcement and Correction option within the Arts and Sciences major of interest. This option, designed to provide an opportunity for in-service law enforcement and correction personnel to further their education beyond the junior college, is available also to Towson undergraduate students. It is intended to provide a strong interdisciplinary background in sociology, psychology, and political science as a means of helping students to improve their skills in communication, their understanding of the nature and causes of human behavior, and their ability to make informed decisions.

LAW

Students wishing to enter law school following graduation are urged to concentrate upon the improvement of their speaking, writing, and reasoning skills. Several options are available to them for their academic preparation at Towson. A pre-law program is available within the liberal arts major, allowing the student to pursue a course of study individualized to meet his/her particular interests, needs, and abilities. The student also may elect, upon the advice of the pre-law advisor in the Department of Political Science, to pursue an undergraduate major within an existing department. Any student wishing to enter law school is strongly urged to consult catalogues of schools to which he/she will apply in order to learn their specific academic requirements as a means of helping him/her to plan his/her program at Towson wisely.

A Pre-Law Council comprised of students planning to pursue a career in law meets regularly at Towson, providing an opportunity for students sharing a common interest to discuss their needs and objectives as pre-law students and offering current information about conditions for admission to law school and about other matters related to careers in law. Every pre-law student is encouraged to join this council.

SCIENCE AND TECHNOLOGY

Our highly technological society demands an increasing number of highly trained technical personnel in such diverse fields as business and industry, medicine, local and state government, and public services. Towson is responding to these new demands making available to students the widest possible variety of programs, interdisciplinary as well as traditional content area. For example, students interested in careers in environmental planning may wish to combine work in the physical sciences with courses in geography, mathematics, economics, political science, and psychology. Students whose primary interest is in ecology, air and water pollution control, or conservation of natural resources, for example, may wish to combine their work in geography and environmental planning with courses in biology and chemistry. Those with primary interest in materials transport or model systems building may emphasize work in mathematics and physics in addition to their courses in environmental planning.

Students interested in careers in mathematics or statistics in government or business may major in mathematics and elect other courses from areas such as computer science, the social sciences, or the physical sciences according to their interests and plans. Students wishing to enter actuarial work, for example, would elect additional courses in economics, business administration, accounting, and business law. Students planning to work as mathematicians or statisticians in government or business would emphasize work in computer science and economics.

ENGINEERING DUAL DEGREE PROGRAM WITH THE UNIVERSITY OF MARYLAND

A cooperative program with the University of Maryland College of Engineering is available to students wishing to earn a baccalaureate degree in engineering. In this program, the student completes his/her junior year (90 credits) at Towson State and then transfers to the University of Maryland College of Engineering for approximately two additional years (60 credits). In order to be eligible for transfer into this program, the student must have included in his/her work at Towson all the General College requirements in addition to the following courses: Chemistry 1905.101, 102, (1905.331-332 for Chemical Engineers); Mathematics 1701.273, 274, 373, 471; Computer Science 0701.235; and Physics 1902.221, 222, 301, 302 or 305. In his/her course work at Towson, the student must maintain a G.P.A. of at least 2.0.

After completing the academic requirements of Towson State University, usually by the end of the first year at the University of Maryland, the student will be awarded a bachelor's degree from Towson. After completing requirements in the College of Engineering, he/she will obtain the baccalaureate engineering degree related to his/her area of specialization.

A detailed description of this program listing all requirements can be obtained from the Dean for the Sciences. Students interested in this program are urged to discuss their plans with their departmental advisor as early in their university career as possible. Careful attention to course requirements is necessary in order for the student to complete the program in five years.

COMMUNICATIONS

The presentation and interpretation of thoughts and ideas through writing, speaking, and pictures is of interest to many students. Students at Towson who wish to pursue a

career in radio, television, journalism, film, and public relations may wish to select a program in Mass Communications designed to help them develop skills in fact-finding, analysis, and communication through the mass media. In addition to specific courses in journalism, speech, film, advertising, and the media, students in the Mass Communications program are strongly urged to acquire a broad background in the humanities, the fine arts, and the social sciences.

Students interested in pursuing a career as a technical writer, technical editor, or as a writer for a house organ in business or industry should take courses in business administration, English, Mass Communications, psychology, and science in order to acquire the technical, writing, and human relations skills necessary to prepare for such careers.

HEALTH SERVICES

Programs offering preparation for a variety of careers in the health services are available to students at Towson. The Department of Nursing offers a baccalaureate program for students wishing to pursue a career as a professional nurse. Students completing a major in nursing receive the Bachelor of Science degree and are eligible to take the examination offered by the Maryland State Board of Examiners of Nurses for licensure as a registered nurse. The four-year program provides for completion of the general university requirements, foundation courses in the physical, biological and social sciences, and coursework in Nursing, which is completed primarily in the junior and senior years.

Several programs are available within the Department of Health Sciences preparing students for a variety of careers in the area of health services. Students interested in the administration of school and community health programs, for example, may elect a specialization in School Health or Community Health, which includes courses in biology, business, chemistry, mathematics, and psychology. Students wishing to pursue a career as a medical technologist may select the major in Medical Technology, which provides background sufficient to pass the Registry Examination administered by the Board of Registry of the American Society of Clinical Pathologists. Students interested in occupational therapy as a career may elect a program in occupational therapy, another option within the Department of Health Science. The major in Occupational Therapy leads to the Bachelor of Science degree and sufficient preparation to pass the certification examination to become a registered occupational therapist.

The program in Speech Pathology and Audiology offered by the Department of Communication Arts and Sciences prepares students to do clinical work in this field in public schools, in colleges, and in medical and paramedical institutions. The student who completes a major in Speech Pathology and Audiology receives the Bachelor of Science degree and partially meets certification requirements for the American Speech and Hearing Association.

PRE-PHARMACY REQUIREMENTS

A student planning on a career in Pharmacy may apply for admission to Pharmacy School after having taken all required courses and having a total of 60 semester hours of University credit. Student averages in the following four areas are evaluated: (a) overall college work, (b) required core courses, (c) Chemistry courses, and (d) Math and Physics courses. In addition, an applicant is required

to take and satisfactorily pass the Pharmacy College Admission Test (PCAT) followed by a personal interview by the admission committee of the Pharmacy School.

Required core courses include: 6 credits of English, 6 credits of Math, 4 credits of Biology, 8 credits of Physics and, 16-18 credits of Chemistry. The remainder of electives include courses such as Introduction to Sociology, Economic Principles and Problems, Physical Education, Health Education, Public Speaking, Modern Languages, Art, Music, General Psychology, Botany, and Computer Programming.

A student interested in Pharmacy as a professional career should consult with the Pre-Pharmacy advisor in the Department of Chemistry upon admission to Towson State University. The student needs to plan a course program, declare an academic major (for example, chemistry, physics, etc.; note that we do not have a pre-pharmacy major) and become cognizant of the specific admission requirements of the Pharmacy college that he/she hopes to attend.

The specific course requirements which a student should take at Towson State University are given below, and it should be noted that all of these courses can be completed during the first two years of University work.

1905.101 and 1905.102	General Chemistry I, II (FR)	(4, 4) _____
1701.116 or 1701.119	Mathematics II	_____
1701.273	Pre-Calculus (FR)	(4 or 3) _____
0401.101	Calculus I (FR)	(4) _____
1501.102	Contemporary General Biology (FR)	(4) _____
1501.204	College Writing (FR)	(3) _____
1902.211 and 1902.212	English Literature (FR)	(3) _____
	General Physics I, II (SO)	(4, 4) _____
	(Physics 1902.221 and 1902.222 can be substituted for the above, but these two courses require Calculus)	_____
1905.331 and 1905.332	Organic Chemistry I, II (SO)	(5, 5) _____

PRE-MEDICAL AND PRE-DENTAL REQUIREMENTS

Students who are interested in pursuing a career in medicine or dentistry should keep the following facts in mind in their undergraduate studies:

- It is difficult to gain admission to Medical or Dental School, and students must have an outstanding undergraduate record in order to be competitive for admission to professional school.
- Most students who enter medical school have a B.S. or B.A. degree, although a few very outstanding students get admitted to medical school with the minimum required 90 credits of University work. The same is true for dental school.
- The B.S. or B.A. degree must be in some specific discipline; there is no *Pre-Medical* or *Pre-Dental* degree at Towson State University. The B.S. or B.A. degree can be in any discipline (that is, in the sciences, in the humanities, in business administration, etc.). However, students must complete a small number of courses required by the Professional schools; these required courses normally are the following:

1. For Medical School Admission

One year of General-Inorganic Chemistry:

General Chemistry I, II (1905.101 and 1905.102) (FR) (4, 4) _____

One year of Organic Chemistry:
Organic Chemistry I, II (1905.331 and 1905.332) (SO) (5, 5) _____

One year of General Biology or Zoology:
SUGGESTED BIOLOGY COURSES:
Contemporary General Biology (0401.101) (FR) (4) _____
Human Anatomy I, II (0401.113 and 0401.114) (FR, SO) (4, 4) _____

One year of General Physics:
Physics I, II (1902.211 and 1902.212 or 1902.221 and 1902.222; the latter sequence requires knowledge of calculus) (SO) (4, 4) _____

One year of English:
Freshman Composition (1501.102) (FR) (3) _____
One additional course (FR or SO) (3) _____

NOTE: 1) In addition, students are strongly urged by most medical schools to take at least one semester of Calculus and one semester of Biochemistry.

2) Some medical schools require other courses to be taken while students are undergraduates. Potential pre-medical students should check specific requirements of schools in which they may be interested in order to be certain that those requirements are fulfilled.

2. For Dental School Admission

One year of General-Inorganic Chemistry:
General Chemistry I, II (1905.101 and 1905.102) (FR) (4, 4) _____

One year of Organic Chemistry:
Organic Chemistry I, II (1905.331 and 1905.332) (SO) (5, 5) _____

One year of General Biology or Zoology:
SUGGESTED BIOLOGY COURSES:
Contemporary General Biology (0401.101) (FR) (4) _____
Human Anatomy I, II (0401.113 and 0401.114) (FR, SO) (4, 4) _____

One year of General Physics:
Physics I, II (1902.211 and 1902.212 or 1902.221 and 1902.222; the latter sequence requires knowledge of Calculus) (SO) (4, 4) _____

One year of English:
Freshman Composition (1501.102) (FR) (3) _____
One additional course (FR or SO) (3) _____

NOTE: 1) Some Dental Schools strongly recommend one semester of Calculus and one semester of Biochemistry.

2) Some Dental Schools may require other courses to be taken while students are undergraduates. Potential pre-dental students should check specific requirements for schools in which they are interested in order to ensure that all requirements are satisfied.

- Students interested in Medical School must take the Medical College Admission Test (MCAT) one to one and one-half years in advance of entering Medical School. Students must apply in advance to take this test. Information about the test itself and about applying for the test can be obtained from the Pre-Professional Committee at Towson State University (see below).
- Students interested in Dental School must take the Dental Aptitude Test (DAT) one to one and one-half years in advance of entering Dental School. Students

must apply in advance to take this test. Information about the test itself and about applying for the test can be obtained from the Pre-Professional Committee at Towson State University (see below).

- f) All medical and dental schools require letters of recommendation from the students' undergraduate school. Therefore, students should make a strong effort to get to know and to be known by various faculty members at Towson State University so as to be able to get letters of recommendation written. Normally, one letter from a Biology professor and one from a Chemistry professor are required. Most professional schools also require a personal interview.

For further information about medical and/or dental school, the Pre-professional Advising Committee should be contacted as soon as possible after entering Towson State University. Write to the Pre-Professional Advising Committee, Department of Biological Sciences, Towson State University, Towson, Maryland 21204 or call 301/321-3042. Careful planning is essential, and an advisor from this Committee should be most useful to the student.

SOCIAL SERVICES

Students interested in pursuing careers in the social services such as social work, psychology, employment or career counseling, and recreation directors should acquire a sound background in the liberal arts, stressing the humanities and the social sciences. Particular emphasis should be given to work in psychology and sociology and to the improvement of skills in oral and written communication.

PASS/FAIL OPTION

Students planning to continue their academic programs at professional or graduate schools should be selective in pursuing courses on the Pass/Fail option. This warning is based on the fact the professional and graduate schools view Pass/Fail courses as being less acceptable for determining admission to their programs. A student planning to attend graduate school should contact that institution to determine their attitude toward the pass/fail option in the admission process.

THE TEACHER EDUCATION PROGRAM

Towson has been preparing teachers for the public schools of Maryland for more than one hundred years. Out of this long experience have come the present three programs for teachers, directed toward three levels: early childhood education (preschool through the third grade), elementary (first through sixth grades), and secondary (seventh through twelfth grades). Recently a program has been developed to prepare teachers for middle schools.

Professional education courses, comprising about twenty percent of the four years' work, consist of approximately two-thirds classwork at the University and one-third laboratory experiences, including student teaching in the classrooms of public school systems. Prior experience with children is strongly recommended for those seeking admission to student teaching.

Approximately forty percent of the university program is given over to studies of a general nature—in the humanities, the social sciences, and the natural sciences—providing a well-rounded college education. Certain basic courses are required, assuring foundations in all broad areas of knowledge; but even among these there are frequent choices, and beyond them is the opportunity for

electives that make possible the pursuit of special interests.

The balance of the four years' work, approximately forty percent, is given over to electives which permit the student to develop competency in the field in which he/she will eventually teach or to pursue his/her special interests.

In general students with a minimum of a 2.0 cumulative average are eligible to enter student teaching when (a) they have completed the required freshman and sophomore courses; and (b) they have completed all professional prerequisites. They must in addition have the approval of the Director of Laboratory Experiences to enter and remain in the student teaching program.

The teacher education program may lead directly to positions such as: nursery and kindergarten teaching, primary grade teaching, upper elementary teaching, middle school teaching, junior and senior high school teaching, college teaching, special educational teaching, guidance work in schools, and librarianships in schools and public libraries.

With experience and additional training, graduates of the teacher education program may become administrators such as supervisors, principals, and superintendents.

Other vocations and areas of work in which teacher education graduates enter include: social work, religious education (including the ministry of education and the ministry of music), personnel work, recreation work, educational TV, audio-visual education in the schools and in business and industry; industrial education, programmed instruction in business and industry as well as in the schools, the field of testing in education and in business and industry, and educational positions in governmental agencies.

Required courses for each area and suggested course sequences are listed under each area in the Education Department course descriptions.

TEACHING CERTIFICATES

Each graduate of a teacher education program at Towson will be qualified for Maryland certification at the early childhood education, elementary, or high school level. Early childhood education graduates may teach nursery school, kindergarten, and grades one, two, and three. Elementary education graduates may teach grades one through six and they may teach an academic subject in grades seven, eight, or nine, provided they meet the content requirements for a secondary school certificate in this subject. Secondary school graduates may teach in grades seven through twelve, and grades six when departmentalized. The Standard Professional Certificate is issued for three years at graduation and is renewable for seven years upon completion of six semester hours of graduate or advanced undergraduate courses. Because the Education Division of Towson State University has received NCATE Accreditation and approval by the Maryland State Department of Education, Towson graduates are qualified for certification in thirty-three states throughout the country.

The Towson graduate program affords opportunity to qualify for the Advanced Professional Certificate. Thereafter a master's degree or "equivalent" is required for the Advanced Professional Certificate. Certification to teach in Baltimore City is based in part upon the passing of a professional examination.

GENERAL UNIVERSITY REQUIREMENTS FOR BACHELOR'S DEGREES

All degree programs of the University are based upon a

fundamental background of general studies. Work in five area disciplines of liberal arts or general education courses are required of all students working toward the Bachelor of Science or Bachelor of Arts degrees. Additional courses in general education are required of prospective early childhood and elementary school teachers; but it is possible, and sometimes desirable, to pursue a major in an academic field. Students pursuing a program in secondary education are required to complete a major in addition to required education courses.

SPECIALIZATION

A major in an academic field is earned by completing about eight courses, generally, beyond the basic required courses in the chosen field — or about 36 credit hours of work, the exact amount being set by the various departments. Three possible benefits make the pursuit of a major course of study desirable: it prepares the student for graduate study in the field; it prevents a possible too-wide dispersion of effort which would result in a lack of real competency in any branch of knowledge; it qualifies the graduate from the teacher education program to teach the subject in junior and senior high schools.

Students may select a major or approved department program from one of the following fields; art, business administration, biology, chemistry, economics, elementary education, elementary school science, English, geography, history, high school science, early childhood education, mathematics, modern foreign languages, music education, physical education, physics, political science, psychology, philosophy, sociology, social science, speech and dramatics, speech education. The required courses for programs are listed with department course descriptions.

FOREIGN STUDY

Students with upperclass standing desiring to pursue study in a specialized academic area at a college or university outside the United States must make application and obtain University approval for the study program. The appropriate form for making application may be obtained at the Registrar's Office. Approval is gained through the department chairman of the academic area involved, who will assist the student in the selection of a program satisfactory to the department. For final approval, the department chairman will forward the proposed program to the Academic Standards Committee through the office of the Dean of the University. After the student has returned to the University, transfer credit for a program of study undertaken outside the United States will be granted only

upon recommendation of the department chairman and after an evaluation has determined the student's successful completion of the program.

THE COOPERATIVE EDUCATION PROGRAM

The Cooperative Education Program at Towson State University is designed to foster an interchange of students between Towson State and the other State Colleges of Maryland as well as other institutions of higher learning in the Baltimore Metropolitan area. The institutions included in the program are the State Colleges at Bowie, Coppin, Frostburg, Morgan, Salisbury, University of Baltimore, and the University of Maryland, Baltimore County; and the private colleges Goucher, Loyola, College of Notre Dame, and Johns Hopkins. The program is also designed to allow students to take courses not ordinarily available at Towson as well as study under eminent professors in residence at other institutions. Students are encouraged to develop their academic curriculum with the Cooperative Education Program as an important part of their plans.

There are no additional costs to the student to participate in the Cooperative Program.

Students desiring information concerning the Cooperative Education Program should consult with the Coordinator of the Cooperative Education Program. Cooperative Education Program applications, participating college bulletins and class schedules are available from the Coordinator, the Director of Records.

ACADEMIC REQUIREMENTS

Students participating in the program are expected to maintain the same degree of proficiency in their academic studies at the cooperative institution as at Towson State.

Courses taken at the cooperative institutions are part of the student's academic record, and grades will be computed into the student's grade point average at Towson.

Only full-time day students who are in good standing academically in an undergraduate or graduate degree program are eligible to participate in the Cooperative Education Program.

NATIONAL STUDENT EXCHANGE

This program allows students an opportunity to become acquainted with social and educational patterns in other areas of the United States. Through Towson's membership in the NSE, students may attend one of the 29 participating schools for a semester or a full year. For further information, contact the Director of Records.

Division Of Continuing Studies

Michael T. Murphy, Dean and Director of Continuing Studies
John M. Bowen, Associate Director of Continuing Studies
Frances L. Miner, Associate Director of Continuing Studies
Mary L. Hebler, Academic Coordinator, Continuing Studies
John Hild, Fiscal Coordinator, Continuing Studies
Susan D. Moore, Academic Coordinator, Continuing Studies
Frances A. Replogle, Academic Coordinator, Continuing Studies

PROGRAMS AND MAJORS

1. The Arts and Sciences Program — for those who wish to develop the foundation for future specialized or professional training, or to improve their occupational competency by completing requirements for a bachelor's degree. A full description of the program and the degree requirements can be found in the Undergraduate Program section.
2. The Teacher Education Program — for those who wish to follow a course of study leading to a degree and certification. A full description of the program and the degree requirements can be found in the Undergraduate Program section.
3. General courses are also available for those who wish to develop themselves for more personal effectiveness and success in their daily lives in contemporary society.

The Division of Continuing Studies offers a complete degree program in several areas of study. Majors in the following are currently available through Continuing Studies: Art, Arts and Sciences, Biology, Business Administration, Education (Early Childhood, Elementary, Secondary), English, General Studies, Geography, History, Law Enforcement and Correction, Mathematics, Natural Science, Psychology, Social Science, and Sociology.

The following majors require considerable daytime involvement and cannot be completed through Continuing Studies: Anthropology, Chemistry, Economics, Gerontology, Health Science, Instructional Technology, International Studies, Mass Communications, Modern Languages, Medical Technology, Music, Nursing, Occupational Therapy, Philosophy, Physical Education, Physics, Political Science, Clinical Concentration in Psychology, Public Address, Speech, Speech Pathology and Audiology, and Theatre Arts. A description of these majors and their requirements can be found elsewhere in this Bulletin.

DECLARATION OF MAJOR

All officially admitted part-time degree candidates should formally declare their major with the Division of Continuing Studies and/or the respective Department.

WORK TAKEN AT OTHER INSTITUTIONS BY DEGREE CANDIDATES

Students may take courses at any accredited educational institution without prior approval from Towson State University under the following conditions: with less than 64 credits, including the work taken for transfer, the student may take courses at a two or four year institution; with more than 64 but less than 90, including the work taken for transfer, at any four year institution. Students taking courses as part of the last 30 credits must obtain prior approval of the Academic Standards Committee. Students taking courses as part of their major must have

prior approval of Academic Standards and their major department. Petition forms for prior approval are available in the Continuing Studies Office. It is the responsibility of the student to have official transcripts sent to the Registrar's Office.

TRANSCRIPTS OF ACADEMIC RECORD

Transcripts will be sent only upon written request of the student. Transcript request forms may be obtained at the Office of the Registrar. The College requires at least two weeks notice for issuance of a transcript record. A fee of \$2.00 will be assessed for each request after the first copy.

A student with an outstanding indebtedness to the institution will not be eligible for transcripts of record.

ACADEMIC ADVISEMENT

Academic Coordinators are available daily Monday through Thursday from 9:00 a.m. to 9:30 p.m. and Friday from 9:00 a.m. to 5:00 p.m. prior to and during the Fall and Spring semesters. Programs should be planned and classes selected prior to registration periods. Persons wishing advisement or consultation are urged to call well in advance for a specific appointment. Students with little or no college experience should make their selections from the General University Requirements listed under the Undergraduate Program section.

ADMISSION

Admission is the official acceptance of a student as a degree candidate. Registration is the application for courses for a particular semester. All persons who have undergraduate status are free to register for courses without formal admission to the college.

REGULAR PART-TIME DEGREE CANDIDATES

Degree candidates are those who are taking courses for credit and have been officially admitted or readmitted to a degree program at Towson State University. Students wishing to matriculate must possess either a 2.0 cumulative average from the last college at which they have taken 12 credits, or a 2.0 and a minimum of 12 semester hours at Towson State University. After the completion of 12 credits and the attainment of a 2.0 cumulative average, a student should make an appointment with an Academic Coordinator to obtain an application for admission to degree candidacy. Degree candidates should arrange conferences with an academic coordinator on a regular basis to plan their academic program.

1. In general most majors require all degree candidates to complete approximately one-half of their courses at Towson State University.
2. The last 30 credits toward a degree must be taken at Towson State University.

UNDERGRADUATE SPECIAL STUDENTS

Special students are those who are taking courses for credit but have not been officially admitted or readmitted to a degree program at Towson State University. Special students interested in degree candidacy should see an Academic Coordinator about the Qualifying Program.

AUDITORS

A student may audit a course by clearly marking "AU" after each course to be audited on the Course Request Form at registration. No credit may be earned in a course which is audited. Audited courses will not appear on the student's record.

FORMER FULL-TIME (DAY DIVISION) TSU STUDENTS

Any student who attended Towson State University on a full-time basis and either voluntarily withdrew or was academically dismissed from the College reverts to Special Student status, and *must be formally readmitted to candidacy*. In order to be eligible for readmission to degree candidacy on a part-time basis, a student must:

1. Be in good academic standing; or
2. Achieve a 2.0 or C level work since dismissal.
3. Students who have been academically dismissed from Towson State University may not take more than 18 semester hours during the dismissal period without approval of the Academic Standards Committee.
4. Complete the necessary readmission form available in the Division of Continuing Studies, Administration Building, Room 223.

These students should arrange a conference with an Academic Coordinator to review their previous academic work, complete the forms necessary for readmission, and to help plan their future academic program.

SENIOR CITIZENS

The Division of Continuing Studies will admit senior citizens to classes on an audit or credit basis and will waive payment of tuition and registration fees only. A senior citizen is one over 60 years of age who is retired, who does not have other full time employment, and whose chief income is from retirement. Persons qualified under these terms and who are interested are urged to call the Division of Continuing Studies, 321-3149 for an appointment with a Coordinator.

TRANSFER FROM EVENING TO DAY PROGRAM

In order to be eligible to apply for transfer from the evening to the day program, a part-time degree candidate must be in good academic standing (have a 2.0 cumulative average) and complete one full semester after admission to part-time degree candidacy. If the student meets these qualifications, he/she should fill out an "Application for Transfer from Evening to Day Program." The form should be returned to the Division of Continuing Studies before November 15 for the Spring semester and before April 1 for the Fall semester.

TRANSFER FROM DAY TO EVENING

Full-time day students who wish to transfer to part-time status must complete an "Application to Transfer from Day to Evening Programs." These forms are available in the Registrar's Office.

As a part-time student, he/she must register through the Division of Continuing Studies and pay part-time tuition. The present policy allows direct transfer until the end of evening school registration each semester.

JANUARY SESSION

The January Session, or Minimester, is a four week term

designed to offer both the student and the professor an opportunity to explore nontraditional educational experience. The subject matter is usually organized around a narrow topical theme. Both the thematic approach and the concentrated time span encourage a depth of study not possible during the regular semester.

The courses offered include independent study, directed readings, practicums, travel-study, seminars and field study.

The student is restricted to one course per term, carrying from one to three credits. Credits for the Minimester are equivalent to credits earned during the regular semester.

Special students and part-time degree candidates are eligible to register for the January session. The General University fee will be assessed for these students.

Fees will be assessed on a per credit basis plus a registration fee payable at the time the student registers for the course.

Registration for most courses takes place in October. The exact times are advertised through the publications of the University.

OFF-CAMPUS CENTERS

Extension courses were originally offered in the mid-1960's for teachers in the surrounding public school systems to meet State Department of Education certification requirements.

Over the last few years the scope of the program has increased substantially to include graduate education courses at degree centers, Business Administration courses for employees in industrial parks, courses for day care and private nursery school teachers, and courses in liberal arts and sciences as well as those courses for certification purposes.

Currently there are over 1500 registrations each year in the program covering eight counties and Baltimore City.

Courses are scheduled to meet recognizable demands for college credit instruction.

DIRECTED INDEPENDENT STUDY

The Directed Independent Study Program at Towson State is designed for those students who wish to undertake college studies but who are unable to attend classes on campus or who have learning styles that lend themselves to more independent work than is required in regular college courses. Courses offered are standard courses in the curriculum but require no class attendance. It is possible for a student to complete a substantial portion of his/her course work under this program. An Academic Coordinator should be consulted for complete listing of available courses.

Procedure:

After registration, Directed Independent Study students should contact the respective Department Chairperson for assignment of an instructor. It is the student's responsibility to contact his/her faculty sponsor.

Students will be given a course of study and work independently to achieve its objectives, meeting only four times during the course with the professor. Study guides, textbooks and other materials appropriate to the course will assist the student in his course of study.

These courses are for degree credit and may be taken by anyone who has a high school diploma or equivalency and is capable of doing college work.

This program is not to be confused with courses listed in the Division of Continuing Studies Course Schedule

bulletin as "Directed Reading" or "Independent Study" which are advanced courses with variable content and credit value.

SECOND BACHELOR PROGRAM

The Second Bachelor's Program is designed to meet the needs of college graduates who wish to attain proficiency in another major field. To qualify for admission, students must hold a baccalaureate degree either from Towson State or from another accredited institution. Baccalaureate degree holders seeking any post baccalaureate work other than a second undergraduate degree should contact the Office of Graduate Studies.

A maximum of ninety transferable credits (sixty-four from a junior college) from any regionally accredited institution may be applied towards the Second Bachelor. In addition, the student must meet the requirements of the "new" major department and must take at least the final thirty credits hours at Towson State. These thirty credits may not be met through Credit for Prior Experience Option.

To fully acquaint yourself with the program and its advantages, please arrange for an appointment with an Academic Coordinator, 321-3149. At that time, questions regarding formal admission, and academic advising in regard to courses, course load and other requirements may be discussed in detail. If the first bachelor's degree is from a college other than Towson, please bring to the appointment a student copy of your transcript.

COLLEGE IN ESCROW

College in Escrow is a program designed to allow motivated and outstanding high school seniors to begin college work before graduation from high school. These credits will be awarded to the student upon matriculation at Towson State or another degree-granting institution. Since transfer of credit is the prerogative of the accepting institution, Towson cannot guarantee that these credits will be transferable to all schools.

The recommended sequence of Escrow work is six (6) credits during the summer preceding the senior year and three to nine credits during the fall and spring semesters of the senior year. Escrow students may select introductory courses or advanced courses for which they have the necessary prerequisites. They may be taken during the day or evening hours.

In order to participate in the College in Escrow Program, it is recommended that students have completed their junior year, have a B average, and confer with an Academic Coordinator. Advising should precede registration.

CREDIT FOR PRIOR EXPERIENCE

Students may receive up to 32 hours of credit for what has been previously learned in non-college studies or experience. Achievement in a particular area must be equal to or superior to that of a student having earned a C in the course taken. Presently, there are 20 departments participating in the program. Advanced placement with no credit given is also offered.

The participating departments may offer credit for previous experience in two ways: either through standardized evaluative instruments such as CLEP, the College Advanced Placement Tests, or others, or individualized course syllabi and evaluative procedures.

If credit is granted, the student receives the same number of credits for the course as the student who takes the

course the traditional way. A mark of "PE" is reported to the Registrar by the department.

For additional information please contact the Division of Continuing Studies.

INFORMAL COURSES

Non-credit courses with substantially reduced costs are scheduled each semester. These courses are planned for those persons who wish to pursue unique interests but are not interested in college credit. Antiques, property management, law for laymen, genealogy, ice skating, and physical fitness are topics which have been covered in informal courses. For further information, call 321-2032.

STUDENT COURSE LOAD

The normal full-time load is 15-18 credits each semester.

Students may take up to 19 semester hours for credit. It is suggested that students possess a minimum cumulative average of 2.50 to take 19 semester hours.

Students with a 3.25 cumulative average based on at least 30 hours taken at Towson State may carry 20 hours. In his last semester of his senior year a student may carry 20 semester hours provided the number is necessary to be graduated and provided his cumulative average is 2.50 or better.

Students with a 3.50 cumulative average or better, based on at least 30 hours taken at Towson State may carry 21 hours.

Students must have the approval of the Dean of the Division of Continuing Studies to register for more than 19 semester hours during any one semester, or 14 semester hours during the Summer Session.

CREDIT HOURS

The unit of credit is the semester hour. It is defined as one 50-minute class per week or its equivalent. A three-hour evening class usually meets one 150-minute period a week for one semester. Laboratory and studio classes normally require two or three hours in class as the equivalent of one semester hour.

ATTENDANCE

Students are expected to attend all classes. Each faculty member sets his own policy on absences. Policies vary and it is the responsibility of the student to understand clearly the absence policy of each instructor and to act accordingly.

APPLICATION FOR GRADUATION

Any student who is completing graduation requirements during the academic year must file an application for graduation no later than the following time:

December Graduates:

file by May 31st of the year of graduation.

June Graduates:

file by September 30th of the year prior to graduation.

September Graduates:

file by March 31st of the year of graduation.

Graduation applications are available in the Continuing Studies Office, Room 223, Administration Building. Students are reminded that the \$15.00 undergraduate graduation fee must be paid before the graduation application can be accepted.

PASS OPTION

Students may elect any course NOT REQUIRED FOR THE MAJOR on the pass option. You must indicate a "PS" at the time of registration. No more than six (6) semester hours may be taken on the Pass option per semester. No more than twelve (12) semester hours may be taken on the pass option toward graduation. The pass option marking procedure is as follows:

A student who receives "A", "B", or "C" will have the "PS" grade recorded on his/her permanent record. A student on the pass option who receives a "D" or "F" will have that grade recorded on his/her permanent record and it will be used in computation of the cumulative average. The pass option may not be utilized by post-baccalaureate students registering for courses available for graduate credit.

WITHDRAWAL FROM A COURSE

Students wishing to drop a course may do so as follows:

Students may drop up to the end of the first two weeks of classes and no grade will be recorded.

Students who have not dropped a course at the end of the first two weeks of classes may withdraw from a course up to three weeks after the mid-semester date. Students withdrawing during this period will have the grade of "W" recorded for the course. This grade may be removed by repeating the course.

Students registered for a course who do not drop or withdraw during the periods referred to above must receive a grade of A, B, C, D, F or I as determined by the faculty member. Those students who register and do not receive a grade from the instructor because of non-attendance, will be assigned a grade of "FX".

Degree/major Requirements, Transfer Credit Policy, Grading System, Repeating courses, and Reinstatement are the same as that described elsewhere in the Bulletin. For any additional information on programs under the auspices of the Division of Continuing Studies, please call 321-2022.



Graduate Studies

Wilfred B. Hathaway, Dean and Director of Graduate Studies
Frederick C. Arnold, Associate Director of Graduate Studies;
Coordinator, General Studies Program
Clifford D. Alper, Coordinator, Music Education Program
Grayson S. Burrier, Coordinator, Secondary Education Program
Phyllis G. Ensor, Coordinator, Health Science Program
James E. Ewig, Coordinator, Biology Program
Joseph P. Gutkoska, Coordinator, Reading Program
Dell C. Kjer, Coordinator, Early Childhood Education Program
Charles Loneyan, Jr., Coordinator, Speech Pathology and
Audiology Program
James E. Dilisio, Coordinator, Geography Program
John B. Mitchell, Coordinator, Art Education Program
Paul E. Jones, Coordinator, Instructional Technology Program
Instructional Technology Program
Richard J. Williams, Coordinator,
Elementary Education Program
Stanley Zweback, Coordinator, Psychology Program

PROGRAMS AND PURPOSES

The Master of Arts degree programs in Geography and Psychology, and the Master of Science degree programs in Instructional Technology, Biology, Health Science, and Speech Pathology and Audiology are intended to develop further specific knowledge in the respective fields. It is the intent of these programs to enable students to meet their needs through the flexibility within each program. The Master of Arts degree program in General Studies is intended for the student wishing an interdisciplinary degree and is designed to meet individual needs.

The programs leading to the Master of Education degree have been developed primarily to help teachers increase their competency in the following general areas:

Art Education	Music Education
Early Childhood Education	Reading
Elementary Education	Secondary Education

GENERAL ADMISSIONS POLICY

Admission to the Graduate Division at Towson State University is granted to all applicants whose academic and personal qualifications give promise of success in graduate study.

All students seeking admission to a graduate degree program or to take courses carrying graduate credit must file an "Application for Admission to Graduate Studies" prior to first enrollment and have official transcripts of all college work sent to the Graduate School. Transcripts must be sent directly from the institutions attended to the Graduate Office at Towson State University. Programs have the option of requiring additional admissions devices (including letters of recommendation, the Graduate Record Examination Aptitude and/or Advanced Tests and the Miller Analogies). Students should consult the Graduate Office for information concerning specific programs.

ADMISSION TO COURSES FOR GRADUATE CREDIT

An applicant for admission to courses for graduate credit (classification: Graduate Student) must meet admission requirements in one of two ways: 1) By holding a Master's or Doctor's degree from a regionally accredited college or university, 2) By holding a Bachelor's degree from a regionally accredited college or university, with a grade average of 3.00 ("B") and satisfactory attainment on all admissions devices required by the program. At the option

of the coordinator and the Department Graduate Committee, the grade average requirement may be satisfied by a 3.00 cumulative average, by a 3.00 average in the most recent 60 credits on the academic record, or by a 3.00 average in the courses making up the undergraduate major and minor if the student plans to continue his/her studies in these same fields. The quality of graduate work taken beyond the Bachelor's degree, either as post-baccalaureate (non-graduate credit) courses or graduate credit courses, will be evaluated as part of the undergraduate record.

All required application credentials (see General Admissions Policy) must be filed with the Dean of Graduate Studies no later than July 15 for the Fall Semester, November 15 for the Spring Semester, or March 15 for the Summer Session to be considered for admission. Those who are admitted as Graduate Students may register for courses numbered 100-699, but will receive graduate credit only in graduate level courses numbered 300-699 completed with grades of "C" or better. Some 300-level and 400-level courses do not carry graduate credit and are not listed in the Graduate Bulletin. In order to maintain the classification of Graduate Student, a good academic record must be achieved even if the student is not in a degree program.

CONDITIONAL ADMISSION

Conditional Admission may be granted to those students whose academic achievement falls short of the standards required for Graduate Student standing if one of the following requirements is met:

1. Academic average in collegiate work — at least 2.30 in one or more of the areas of the student's record listed above in "Admission to Courses for Graduate Credit."
2. Academic average in collegiate work — at least 2.00 in one or more of the areas of the student's record listed above in "Admission to Courses for Graduate Credit" — and a score of 1000 or higher on the Aptitude portion of the Graduate Record Examination.

The student granted Conditional Admission must complete two specified courses with the grade of "B" or better in each course. The courses must be completed within one year of admission and may be used towards the degree when applicable. In programs where Conditional Admission courses are to be selected from assigned alternatives the first two courses attempted will constitute the Conditional Admission program.

Students admitted conditionally are enrolled as Non-Graduate Students.

GRADUATE WORK BY SENIORS AT TOWSON STATE UNIVERSITY

Students in their last semester of work at Towson State University may register for a maximum of six credit hours in the Graduate School if they meet the following requirements: 1) The graduate courses must be in excess of the credits required for the Bachelor's degree, 2) A letter sent from the student to the Dean of Graduate Studies requesting Graduate Student classification (which requires a 3.00 average), submitted in advance for specific graduate courses (by July 15 for the Fall Semester, November 15 for the Spring Semester, and March 15 for the Summer Session) must be approved. 3) All required application credentials must be submitted (see General Admissions

Policy) and the student must be granted Graduate Student Standing prior to receipt of graduate credit for satisfactory completion of the courses, and prior to initiation of further course work.

NON-DEGREE STUDENTS

Students who do not meet the standards required for classification as Graduate Student are permitted to register with the classification of Non-Graduate Student. Those students receiving Non-Graduate standing are eligible to take courses at the 100-level through the 400-level, but may receive graduate credit only in courses numbered 300-499 and listed in the current bulletin as "Undergraduate and Graduate."

Students who believe they can meet the admission requirements for Graduate Student standing but who fail to file the required application credentials in advance must register as Non-Graduate for the semester. However, they will be considered for admission to Graduate Student standing if their application credentials are received by the Graduate School before the end of the first quarter of the semester. If they are admitted to Graduate Student standing they will then be permitted to receive degree credit for satisfactory completion of any 300-level and 400-level graduate courses provided the courses are applicable to the degree program.

CANDIDATES FOR DEGREES AT OTHER INSTITUTIONS

Students who are candidates for an advanced degree at another college or university may enroll as a Graduate Student at this university for occasional work. They must present, at least two weeks before registration, a letter from the Graduate Dean of their parent institution indicating that they are in good standing and the credit earned at Towson State University is acceptable towards their degree.

ADMISSION PRIOR TO RECEIVING BACCALAUREATE DEGREE

Admission may be granted to seniors in their last semester of work whose required application credentials are incomplete because the baccalaureate degree has not yet been conferred. Evaluation will be made on the basis of their undergraduate work through the first semester of the senior year. Standing granted in the pre-degree category is made at the option of the Graduate Program Coordinator to enable the student to begin work in courses carrying graduate credit immediately upon completion of the senior year. The applicants must have all application credentials completed during the first month after classes begin in the semester they initiate their course work. Admission standing is subject to cancellation or change if the admission credentials remain incomplete or do not meet the requirements for admission. If admission as a Graduate Student is denied, the student will be required to withdraw from any 500-level or 600-level courses for which he/she has registered. Continuation of students in courses below the 500-level will be permitted.

FOREIGN APPLICANTS

Admission should be sought at least six months prior to the date of anticipated enrollment. All required admission credentials must be received in the Graduate Office prior to evaluation for admission.

Credentials required are:

- 1. An Application for Admission to Graduate Studies
- 2. Official or certified true copies of all grade reports, diplomas, and academic records attesting to the completion of undergraduate work
- 3. A letter from the student stating plans for attending, and reasons for selecting, Towson State University.
- 4. A financial summary stating amount and sources of support for the proposed duration of study
- 5. Acceptable scores on the Test of English as a Foreign Language (TOEFL). Information about the TOEFL may be obtained from TOEFL, Educational Testing Service, Princeton, New Jersey 08540

GRADING SYSTEM

A four-point system is used to identify quality of academic work. The letter "A" designates work of superior quality; "B" work of good quality; "C" work of satisfactory quality; "D" work of less than satisfactory quality and not allowable for degree credit; "F" work of such unsatisfactory quality that no credit is given.

Post-baccalaureate students may not elect to take any course offered as available for "graduate" credit under the Pass Option policy.

The grades of "S" satisfactory or "U" unsatisfactory are utilized for the "Thesis" course of graduate programs. A grade of "FX" is assigned when a student registers for a course and does not attend or neglects to withdraw officially from the course or from the College by the last published date to drop a course.

A mark of "I" (incomplete because of illness or other reason beyond control of student) at the end of a semester, carries no credit. Unless such a course is satisfactorily completed within six months of the last day of class for the course, the grade for the course becomes "F." It is the responsibility of the student to make arrangements for removal of the "I." Grades of "I," "S," and "U" are not used in computation of averages.

In computation of grade point averages, the following quality point values are used:

A — 4 quality points	D — 1 quality point
B — 3 quality points	F — 0 quality point
C — 2 quality points	FX — 0 quality point

Students may repeat a course only once where credit has been earned or a mark of "F" or "FX" has been awarded. When the course is repeated, the student will receive the credits for the course counted once and the higher of the two grades if repeated for the first time after September 1, 1970. Students repeating courses must indicate this at the time of registration. Upon completion of the repeated course a change of grade form must be submitted to the University Registrar by the student concerned. The lower of the marks earned is not maintained on the student's permanent record.

REQUIREMENTS FOR THE MASTER'S DEGREE

- 1. Satisfactory completion of all undergraduate requirements listed as prerequisites for the degree.
- 2. Filing of a Program of Study with the Dean of Graduate Studies.
- 3. Advancement to Degree Candidacy.
- 4. A 3.00 average in all graduate work at Towson State University.

5. Satisfactory completion of the Comprehensive Examination if required by the program in which the degree is sought.
6. Satisfactory completion of the Thesis and oral examination if the Thesis Option is selected.
7. Filing of the Diploma Card in the Graduate School.

TIME LIMITATION

All requirements for the Master's degree are to be completed within a seven-year period. The scheduled time is determined from the date of the first course in the degree program at Towson State University, or the date of any course allowed as transfer credits, whichever is earlier.

CONTINUOUS ENROLLMENT

Each student is expected to register for courses on a regular basis. Should there be a lapse of two academic years without courses being taken, the student's records will be inactivated. Once a student has become "Inactive," it is necessary to be reactivated under current policies.

PROGRAM OF STUDY

A Program of Study should be planned within the semester that the student is granted Graduate Student standing. The Program is to be completed in consultation with an adviser and must be drawn up on forms provided by the appropriate graduate coordinator. Revision of the Program of Study may be accomplished only with the adviser's approval. The Program must be planned prior to Advancement to Degree Candidacy.

Courses taken prior to the planning of the Program of Study are subject to the approval of the appropriate graduate coordinator. Courses taken as an undergraduate student and courses taken as a post-baccalaureate student for undergraduate credit may not be repeated for graduate degree credit.

ADVANCEMENT TO DEGREE CANDIDACY

All students in programs leading to the Master's degree must attain Advancement to Degree Candidacy. An application for Advancement to Degree Candidacy may be made by Graduate Students after nine hours of graduate courses have been completed. The following requirements govern eligibility for Advancement to Degree Candidacy:

1. Six credits in 500-level and 600-level courses.
2. A 3.00 average in all graduate work at Towson State University.
3. Successful completion of the Advancement to Degree Candidacy Examination.
4. The filing of a Program of Study with the Dean of Graduate Studies.
5. Completion of all undergraduate requirements.

All students are urged to meet the requirements of and to make application for Advancement to Degree Candidacy within the nine to fifteen hour framework. Advancement to Degree Candidacy must be attained at least one semester prior to the semester in which the student desires graduation.

ADVANCEMENT TO DEGREE CANDIDACY EXAMINATION

Each student must successfully pass a written examination prior to Advancement to Degree Candidacy. In certain pro-

grams the examination may also include an oral portion to be administered subsequent to passing the written part. Application for the examination must be made prior to the date established as the deadline for applying as stated in the Graduate Studies Bulletin. Should the student not take the examination or have to repeat it, the application must again be submitted during the semester in which the examination is desired.

In the program leading to the Master's degree in Biology, the examination requirement may be satisfied by completing 14.581, "Recent Advances in Biology," with the grade of "B" or higher. The programs in Early Childhood Education, Elementary Education, and Secondary Education allow satisfaction of the examination requirement by completing 29.501, "Educational Ideas in Historical Perspective" with the grade of "B" or higher. The written Advancement to Degree Candidacy Examination is required in all cases where the grade of "A" or "B" is not attained when the course is first taken.

In the program leading to the Master's degree in General Studies, the examination requirement may be satisfied by completing 33.501, "The Introductory Seminar in General Studies," with the grade of "B" or higher. The student who receives less than a "B" grade is required to remedy major deficiencies revealed by the course. Remediation may be in the form of additional course work, including Independent Study. When the student satisfactorily fulfills the requirements of the remediation plan, the requirements for Advancement are considered completed.

COMPREHENSIVE EXAMINATION

It is the option of each program to administer a final comprehensive examination. The final comprehensive examination may not be taken earlier than the term during which the student will complete all course work for the degree. The examination may be repeated only once. Application for the examination must be made prior to the date established as the deadline for applying as stated in the Graduate Studies Bulletin. Should the student not take the examination or have to repeat it, it is necessary that an application again be submitted during the semester in which the examination is desired.

ACADEMIC PROBATION

In order to remain in good standing, candidates for the Master's degree must maintain a 3.00 average. If the cumulative average falls below 3.00, the student will be placed on probation. If after completing nine more hours of work, his cumulative average remains below 3.00, he will be dropped from candidacy; otherwise, he will be restored to good standing.

A student on probation will not be permitted to take the written Advancement to Degree Candidacy Examination or the Comprehensive Examination leading to any degree. Required courses in which the candidate earns a grade of "D" must be repeated since the grade does not confer graduate credit.

WORKSHOP AND INDEPENDENT STUDY LIMITATIONS

In all degree programs, a limit of twelve semester hours total is placed on workshops, independent study, travel and study, and directed reading. No more than six semester hours may be taken in any single format.

COURSE LOAD

A student who registers for nine graduate credit hours is considered full time. One who takes fewer hours is designated a part-time student. The maximum load for full-time students is twelve credit hours.

THESIS PROCEDURE

Students intending to write a thesis in partial fulfillment of the requirements for the degree should obtain the brochure "Thesis Procedure" from the Graduate Office. The following steps must be completed prior to approval of registration for the appropriate Thesis course:

1. The student declares in writing to the Dean of Graduate Studies his intent to complete the Thesis requirement.
2. The student meets with the Graduate Coordinator to select a Research Adviser.
3. A Thesis topic is agreed upon.
4. The student discusses suggested members of the Thesis Committee with the Graduate Coordinator and the Research Adviser.
5. When the Committee is agreed upon, the student obtains all appropriate signatures on the Thesis Committee Appointment and Approval Form.
6. The student prepares a Thesis Outline and submits copies to all members of the Thesis Committee.
7. The student and his adviser schedule a meeting of the full Committee and the student orally presents and defends his Outline.
8. The accepted Outline is filed with the office of the Dean of Graduate Studies.
9. The student begins his research.
10. At the next registration for courses, the student must register for the appropriate Thesis course.

TRANSFER CREDIT

The following regulations govern the transfer of credits from other regionally accredited colleges:

1. A maximum of twelve transfer credits may be allowed for graduate work satisfactorily completed at the following institutions: Bowie State College, Coppin State College, Frostburg State College, Salisbury State College, Morgan State University, and the University of Baltimore.
2. A maximum of six transfer credits may be allowed for graduate work satisfactorily completed at accredited institutions other than those listed in one above.
3. A maximum of twelve credits may be allowed for work successfully completed in the formal educational experiences sponsored by State and local Boards of Education. See "Credit For In-Service Experiences."
4. The total accumulation of transfer credits listed in one, two, and three, above may not exceed twelve.

5. Application for transfer of courses taken prior to admission may be made after the student attains "Graduate Student" standing.
6. Transfer credit after a student has been admitted to the Graduate School at Towson State University may be permitted if the student applies in writing to the Dean of Graduate Studies for permission prior to taking a course. Approval may be granted if the course is approved for the student's program and if the course is not offered by Towson State University during the period of the student's attendance.
7. Required courses in a program must be completed at Towson State University.
8. All transfer credits must be completed with a grade of "B" or higher and must remain within the total span of seven years allowed for completion of degree requirements.
9. Transfer credits will not be used in computing the academic average. The courses will appear on the Towson State University transcript with the title and credits earned, and without grades earned.
10. Transfer credits, regardless of level, may not be used to meet the 500-600 level requirements of the graduate program.

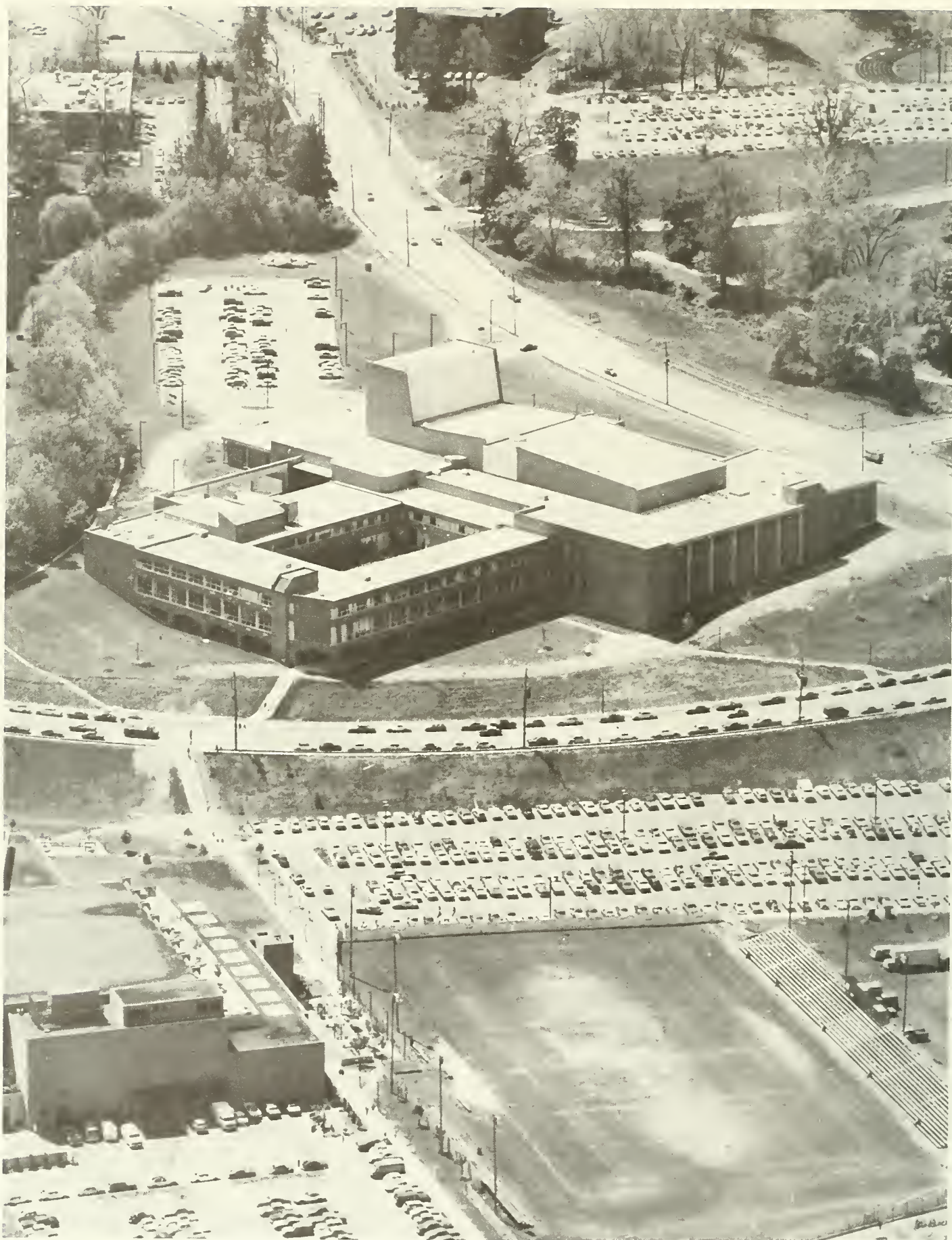
CREDIT FOR IN-SERVICE EXPERIENCES

A student applying for a graduate degree program in Early Childhood Education, Elementary Education, Secondary Education, or Reading may request degree credit for formal educational experiences taken beyond the baccalaureate degree if such experiences were sponsored by State and local Boards of Education in Maryland. Application for evaluation of experiences must be made by the student to the Dean of Graduate Studies. The application must be accompanied by a portfolio of documentary evidence that attests to the quality of the experience for which credit is sought. Procedures pertaining to the evaluative process, as well as guidelines to assist the student in the preparation of the course portfolio may be secured from the Office of the Dean of Graduate Studies. A non-refundable \$10 fee will be assessed the student for the evaluation of each course. An additional fee will be charged for each credit accepted.

APPLICATION FOR GRADUATION

Each student must make application for graduation by submitting the Graduate School Diploma Card and paying the appropriate graduation fee. The diploma card must be submitted by the published deadline date in the Evening Fall 1977 Academic Calendar at the back of this catalog. Students submitting the Diploma Card late must delay graduation for one semester.

Should the student not graduate at the indicated time, the Diploma Card must again be submitted during the semester in which graduation is desired. The graduation fee will be required with the first submission of the Diploma Card, but not with subsequent submissions.







Course Descriptions

The Meaning of Course Numbers

Each department of the University has one or more code numbers and abbreviations for each general subject area (e.g., French in the Modern Language Department). The code abbreviations are shown in parentheses at the head of the course listings. The code numbers form a four digit Subject Classification Number, which precedes a three digit Course Classification Number, forming a seven digit Course Number. Each course has a distinctive number with the following significance:

Course Classification Numbers	Significance of Numbers
.001-.009	Temporary, Minimester Courses.
.010-.099	Special Courses with and without credit and Physical Education Lab skill courses with credit.
.101-.299	Lower Division Undergraduate Courses.
.301-.499	Upper Division Undergraduate and Graduate Courses, as noted.
.501-.699	Graduate Division Courses.

Sequential Courses

Semesters of a year course whose numbers are separated by a hyphen are to be taken in sequence. When course numbers are separated by a comma, either semester may be taken independently of the other, (See Prerequisites).

Elective Courses

Students majoring in the various areas will need to choose their electives with extreme care. Before registering for courses which are not required students should consult their advisers. The advice of the instructor of the course or the chairperson of the department in which the elective course is listed may be needed before a wise decision is made concerning the choice of an elective.

Credit Value of Courses

The semester credit value of the course is indicated in the parentheses following the title.

Time of Offering

All required courses are usually offered each semester. Elective courses in each department are usually offered at least one semester each year. All non-required courses are offered subject to sufficient enrollment.

Prerequisites

The order in which courses should be taken is determined by the prerequisites for all courses, (See Sequential Courses).



Art

Professors: MILLER, MITCHELL (Coordinator of Graduate Studies), POLLACK, ZINDLER

Associate Professors: CUBBISON, J. FIX, FLOOD (Chairperson), GUILLAUME, LADD, MONTENEGRO, NASS, SUPENSKY

Assistant Professors: COHEN, DAVIS, DENNER, D. FIX, GILCHRIEST, JACOBSON, OUNDJIAN, PAULSEN, ROBB

Instructors: BARTLETT, BROWN, LEE, PITMAN, PULLEN

Assistant Instructors: McNAMEE (Curator of Collections), COBERLY (Slide Librarian)

The purposes of a major in art are to provide a background for a personal creativity, to prepare for graduate study, and to provide a foundation for a career in art. The department offers an undergraduate major in Studio Art and both undergraduate and graduate majors in Art Education.

Departmental Office

Building — FA

Room — 359

Phone — 321-2142

BACHELORS DEGREE... ART

Requirements

Major total 45

Minor total 24

1001.103	Two-Dimensional Design	(3)_____
1001.104	Three-Dimensional Design	(3)_____
1001.111	Drawing and the Appreciation of Drawing	(3)_____
1001.121	Prehistoric to Medieval Art	(3)_____
1001.122	Renaissance to Contemporary Art	(3)_____
1001.201	Color	(3)_____
1001.229	Oil Painting and Related Media I	(3)_____
1001.230	Watercolor and Related Media I	(3)_____
1001.231	Ceramics I	(3)_____
1001.240	Sculpture: The Human Figure or	(3)_____
1001.241	Sculpture: Contemporary Media and Concepts	(3)_____

At least one course from the following:

1001.347	Screen Process	(3)_____
1001.349	Relief Process	(3)_____
1001.449	Intaglio Process	(3)_____
1001.451	Lithographic Process	(3)_____

Studio and Art Education majors select 12 additional hours of elective art courses, preferably within an area of specialization such as Painting, Sculpture, or Crafts.

_____	(3)_____
_____	(3)_____
_____	(3)_____
_____	(3)_____

BACHELORS DEGREE... ART EDUCATION

The department offers dual teaching certification only (Elementary and Secondary Level). Students with undergraduate degrees from other institutions as well as undergraduate transfer students wishing teaching certification must take at least 21 hours of art requirements in this department. All courses and statements for the art major apply also to the art education major. Additional requirements for art education include the following:

1001.225	Design for Commercial Art	(3)_____
1001.234	The Photographic Image	(3)_____
0831.375	Materials and Techniques for Teachers of Art	(3)_____
0831.455	Proseminar in Teaching of Art	(3)_____

(Taken concurrently with Student Teaching 0802.497 and 0803.398)

0831.475	Teaching Art in the Elementary School	(3)_____
0831.477	Field Experiences in Art Education (Taken concurrently with 0831.475 and 0831.479)	(2)_____
0831.479	Teaching Art in the Secondary School	(3)_____
2001.101	General Psychology	(3)_____
2001.201	Educational Psychology	(3)_____
0803.319	Survey of Educational Problems	(3)_____
0801.401	Foundations of Education	(3)_____
0802.497	Student Teaching in Elementary School	(3)_____
0803.398	Student Teaching in Secondary School	(3)_____

Art Minor

Students who wish a minor in art should consult with the departmental advisor. The following courses must be selected: 1001.103, 1001.104, 1001.111, 1001.121, 1001.229 or 1001.230, 1001.240 or 1001.241, plus additional art electives to total at least 24 credits.

Advising

All prospective art majors and minors must register with the Art Department as early as possible during the first year on campus and are urged to consult with the departmental advisor in planning each semester's course of study.

Transfer Students

The Art Department accepts art credits from other accredited colleges and universities. Transfer students, however, must take at least half the total required art credits with this department.

History of Art Concentration

Students who wish to select the History of Art Concentration leading to a BA degree should refer to the requirements stated in the Arts and Sciences Program in this catalog.

Art Honors Programs

The art department grants honors in Art Education, Art History, and Studio Arts. Admission is granted at the end of the sophomore or beginning of the junior year to students who have the following qualifications: overall cumulative average of 3.25, major average of 3.25, recommendation of advisor to Departmental Honors Coordinator. The minimum requirements for graduation with honors in art are overall cumulative average of 3.25 and 3.50 in major field and completion of the honors program of study.

ART COURSES

(ART = 1001; ART EDUCATION = 0831)

Lower Division—Undergraduate

1001.102	FUNDAMENTALS OF DESIGN FOR NON-ART MAJORS (3) Elements and principles of design and aspects of their application. (Not for major credit)
1001.103	TWO DIMENSIONAL DESIGN (3) Elements and principles of two dimensional design and aspects of their application. Studio & discussion.
1001.104	THREE DIMENSIONAL DESIGN (3) An introduction to three dimensional concepts as they relate to the elements and principles of design. Form and space problems involving various materials, tools and techniques. Prerequisite: 1001.103.

- 1001.105 ART IN THE CULTURE (3) A study of art and its relation to man's culture, historically as well as a strong emphasis on contemporary western culture. Slide lectures to include a broad media of art forms, readings and museum visits. (Does not count for major credit)
- 1001.106 DRAWING AND PAINTING FOR NON-ART MAJORS (3) An introductory course for non-art majors. Studio experience in drawing and painting. Critiques and museum visits.
- 1001.107 CERAMICS FOR NON-ART MAJORS (3) An introduction to the creative possibilities inherent in clay. Studio work in handbuilding and the potter's wheel.
- 1001.108 STREET ART (3) Investigation of public (vs. museum or elitist) art from mid-eighteenth century to current times. Philosophy behind propaganda and aesthetics of various political systems will be included. Meets general education requirements.
- 1001.109 BLACK ART HISTORY (3) A study of Black American artists and their work as it relates to American Art. Lecture, discussion, slides, museum and gallery visits.
- 1001.111 DRAWING AND THE APPRECIATION OF DRAWING I (3) Problems of expressive draftsmanship in a variety of media. Drawing from the costumed and nude figures, still life and landscape.
- 1001.121 PREHISTORIC TO MEDIEVAL ART (3) An historical survey of art. Slide lectures, directed readings and museum trips.
- 1001.122 RENAISSANCE TO CONTEMPORARY ART (3) An historical survey of art. Slide lectures, directed readings and museum trips. Prerequisite: 1001.121 or equivalent.
- 1001.131 THE ART OF CHINA (3) The art of China and peripheral regions as expressed in painting, sculpture, architecture, porcelain, and the ritual bronzes. The influence of India is studied in connection with the spread of Buddhism along the trade routes of Central Asia. Slide lectures, directed readings, museum trips and demonstration of ink painting.
- 1001.132 THE ART OF JAPAN (3) A survey of the development of Buddhist art and architecture in Japan as they were introduced from China, including the arts of later periods, with special emphasis on the formation of indigenous art forms such as narrative scroll-painting, decorative screens and woodblock prints.
- 1001.201 COLOR (3) Fundamentals of color including work in the basic areas of hue, value, intensity and color mixing, as well as projects in color interaction, illusion, complements, after image, additive and subtractive color and types of color contrast. The student should gain some knowledge of color systems, experience in subjective color use, and discover the specific structural and emotional qualities that color can create. Prerequisite: 1001.102 or 1001.103 or consent of instructor.
- 1001.202 ADVANCED DESIGN (3) The application of aesthetic principles to graphic and plastic problems. Emphasis on independent investigation. Prerequisites: 1001.103, 1001.104.
- 1001.205 THE ART OF PUPPETRY AND MARIONETTE PRODUCTION (3) Design and construction of puppets and marionettes; adapting plays, stories, and events; designing and constructing scenery; lighting; production.
- 1001.206 ARCHITECTURAL CONCEPTS (2) The organization of space and materials for human needs. Contemporary and historical aspects of the design of private and public buildings and of communities. Lectures and Discussion.
- 1001.211 DRAWING II (3) Continued studio work in drawing; landscape, still life and figure. Prerequisite: 1001.111.
- 1001.213 LIFE DRAWING AND ANATOMY (3) The study of anatomical structure of the human figure for art students. Drawing from the nude and draped model. Prerequisite: 1001.111.
- 1001.215 PROJECTIVE DRAWING (2) Methods of perspective, orthographic and isometric projections. The use of various media in the rendering of three dimensional form.
- 1001.216 THE IMAGE OF WOMEN IN ART (3) Women in the history of art from prehistoric to the present with special emphasis in relation to the cultures studied.
- 1001.220 EXHIBITION TECHNIQUES (2-3) The practical and theoretical problems involved in museum and gallery installation of art works. Includes study of past exhibition techniques and observation of contemporary methods. Directed museum trips. Prerequisite: 1001.103, 1001.104 or consent of instructor.
- 1001.225 DESIGN FOR COMMERCIAL ART (3) Drawing, painting, lettering and typography as visual communication. Prerequisite: 1001.103.
- 1001.227 WOOD (3) Lecture and directed studio exploration in designing, cutting, shaping, turning, joining, laminating, and finishing hard and soft woods. Both hand and machine tools will be used. Prerequisite: 1001.103, 1001.104.
- 1001.229 OIL PAINTING AND RELATED MEDIA I (3) Varied approaches to painting and a variety of media (e.g. acrylic, encaustic, oil painting) are explored through demonstration and experimentation. Prerequisites: 1001.103 and 1001.111.
- 1001.230 WATERCOLOR AND RELATED MEDIA I (3) Varied approaches to watercolor and a variety of media (e.g. gouache, casein, watercolor) are explored through demonstration and experimentation. Prerequisite: 1001.103 and 1001.111.
- 1001.231 CERAMICS I (3) Creative investigation of ceramic materials with an emphasis on the potter's wheel. Studio work, lectures and discussion on ceramic design, techniques and materials. Prerequisite: 1001.103, 1001.104 or consent of instructor.
- 1001.234 PHOTOGRAPHY I (3) A comprehensive investigation into the technique and aesthetic of still photography. Students must have a camera with adjustable diaphragm and shutter. Prerequisite: 1001.103, 1001.104 or written consent of instructor.
- 1001.240 SCULPTURE: THE HUMAN FIGURE (3) An introduction to the use of human figure in sculpture. Clay modeling from the nude, with experience in direct plaster modeling and plaster casting. Prerequisites: 1001.103, 1001.104.
- 1001.241 SCULPTURE: CONTEMPORARY MEDIA AND CONCEPTS (3) Technical and aesthetic considerations in the use of current sculptural concepts and media, including lights, kinetics, sound, plastics, etc. Prerequisites: 1001.103, 1001.104.
- Upper Division — Undergraduate and Graduate
- 1001.314 THE ART OF ENAMELING ON METAL (3) Design as applied to the art of enameling on copper and silver. The appreciation of master works of enameling from medieval to contemporary times. Studio work and lectures. Prerequisites: 1001.103, 1001.104.

- 1001.318 JEWELRY (3) Investigation into aesthetics, history, function and design of jewelry. Lecture and directed studio problems in forming, joining and finishing of metallic and non-metallic materials. Prerequisite: 1001.103 and 1001.104 or consent of instructor.
- 1001.319 METALSMITHING (3) Lecture, demonstrations, and directed studio problems in raising, forging, joining, and finishing various metals with emphasis on design and creation of hollow-ware and flatware. The historic and aesthetic aspects of the media are considered. Prerequisite: 1001.318. (Not for Graduate Credit)
- 1001.323 PICASSO TO THE PRESENT (3) Art history with emphasis on painting from 1900 to the present. Slide lectures, directed readings and museum trips. Prerequisites: 1001.121 and 1001.122.
- 1001.324 HENRY MOORE TO THE PRESENT (3) Art history with emphasis on sculpture from 1900 to the present including new media and happenings. Directed readings and museum trips. Prerequisites: 1001.121 and 1001.122.
- 1001.325 FRANK LLOYD WRIGHT TO THE PRESENT (3) Art history with emphasis on architecture from 1900 to the present including time-space concepts. Prerequisites: 1001.121 and 1001.122.
- 1001.326 FABRIC DESIGN: DYEING (3) Design problems executed in dye on fabric using the resist techniques of batik and tie-dye, in addition to stencilwork and hand-painting. Fall semester only. Prerequisite: 1001.103.
- 1001.327 FABRIC DESIGN: PRINTING (3) Technical instruction in block and screen printing on fabric. Design problems include all-over, repeat patterns. Spring semester only. Prerequisite: 1001.103.
- 1001.328 WEAVING AND FIBER CONSTRUCTION (3) Design problems executed in fibers and fabrics. Instruction in loom and hand weaving, macramé, stitchery, rug hooking, etc. Aesthetic and historical considerations. Prerequisites: 1001.103, 1001.104 or consent of instructor.
- 1001.329 OIL PAINTING AND RELATED MEDIA II (3) Continued studio experiences in painting. Prerequisite: 1001.229 or consent of instructor. (Not for Graduate Credit)
- 1001.330 WATERCOLOR AND RELATED MEDIA II (3) Continued studio experiences in painting. Prerequisite: 1001.230 or consent of instructor. (Not for Graduate Credit)
- 1001.331 CERAMICS II (3) Continued studio experience in ceramics. Assigned problems utilizing a variety of clay construction methods plus independent work. Lectures and discussion including clay mixing, glaze application and kiln operation. Prerequisite: 1001.231. (Not for Graduate Credit)
- 1001.334 PHOTOGRAPHY II (3) Continued research with the photographic aesthetic. Emphasis on independent investigation. Student must have camera with adjustable diaphragm and shutter. Prerequisite: 1001.234 or written consent of the instructor based on demonstration of technical competence.
- 1001.335 COLOR PHOTOGRAPHY I (3) An investigation into the use of color and form in still photography through the use of positive and negative transparencies. Prerequisite: 1001.234 and 1001.334 or equivalent.
- 1001.339 METAL SCULPTURE (3) Conceptual and technical problems involved in forging, forming, welding, soldering and finishing both ferrous and non-ferrous metals. Prerequisite: 1001.240 or 1001.241.
- 1001.340 SCULPTURE STUDIO: MODELING (3) Continued studio experience in modeling with emphasis on the use of a variety of techniques and materials: wax, plasters, cements, clay, resins, epoxy metals. Prerequisite: 1001.240.
- 1001.342 SCULPTURE STUDIO: CARVING (3) Technical and aesthetic problems involved in carving stone, wood and other carvable media; studio problems; museum visits. Prerequisite: 1001.240 or 1001.241.
- 1001.343 GREEK AND ROMAN ART (3) Studies in architecture, the decorative arts and sculpture, slide lectures, readings and museum visits. Prerequisites: 1001.121.
- 1001.344 BYZANTINE TO GOTHIC ART (3) Studies in architecture, the decorative arts and sculpture, slide lectures, readings and museum visits. Prerequisites: 1001.121.
- 1001.345 ITALIAN RENAISSANCE ART: 15th-16th CENTURIES (3) Studies in architecture, painting and sculpture, slide lectures, readings and museum visits. Prerequisites: 1001.122.
- 1001.346 THE BAROQUE AND 18th CENTURY (3) Studies in European architecture, painting and sculpture of the period. Slide lectures, readings and museum visits. Prerequisites: 1001.122.
- 1001.347 SCREEN PROCESS (3) Personal expression in traditional and experimental techniques of screen printing: Serigraphy in color, tusche, stencil, glue. Prerequisites: 1001.103, 1001.111 or consent of instructor. (Not for Graduate Credit)
- 1001.349 RELIEF PROCESS (3) Personal expression in printmaking: Woodcut, wood engraving, linocut, subtractive color printing and other relief processes. Prerequisite: 1001.103, 1001.111 or consent of instructor. (Not for Graduate Credit)
- 0831.371 ART AND THE CHILD (2-3) Major considerations of art education appropriate to the work of the elementary teacher; experiences with art materials. (Not for Graduate Credit)
- 0831.373 ART FOR EARLY CHILDHOOD EDUCATION (2) Participation will include lectures, demonstrations, and workshops based on special needs as students experience art in nursery schools, day care centers, kindergartens and the primary grades. Prerequisites: Concurrent registration for Block I, 0823.341.
- 0831.375 MATERIALS AND TECHNIQUES FOR TEACHERS OF ART (3) Art media and the materials and processes of the crafts are structured for varied learning levels. Visits to schools and other art teaching situations as observers and aides are an integral part of the course. Prerequisite: A major in Art Education or consent of the instructor. Must precede student teaching. (Not for Graduate Credit)
- 1001.391 RESEARCH IN ART HISTORY (3) Bibliographic research procedures in Art History. The preparation of publications, including term papers, theses, reviews and criticism. Study of the provenance and condition of works of art. History of scholars and writing in the field. Prerequisite: 1001.121 and 1001.122. (Not for Graduate Credit)
- 1001.405 ART PRINCIPLES AND CRITICISM (3) Principal concepts of art; theories of perception and aesthetics; application of theories to the interpretation of specific works of art. Prerequisite: 1001.105 or 1001.121 or 1001.122.
- 1001.414 ADVANCED STUDIO (2-3) Independent work for advanced students in field of special interest. Prerequisites: Must have exhausted other courses in particular field or written consent of instructor. Student must make arrangements in advance of registration with instructor of choice.

1001.415 **ADVANCED STUDIO (2-3)** Independent work for advanced students in field of special interest. Prerequisites: Must have exhausted other courses in particular field or written consent of instructor. Student must make arrangements in advance of registration with instructor of choice.

1001.416 **ADVANCED STUDIO (2-3)** Independent work for advanced students in field of special interest. Prerequisites: Must have exhausted other courses in particular field or written consent of instructor. Student must make arrangements in advance of registration with instructor of choice.

1001.418 **JEWELRY II (3)** Continued studio experiences in jewelry. Directed studio problems in the techniques of casting, fabrication, raising, forging, stone setting, with an emphasis on independent work and personal expression. Prerequisites: 1001.318.

1001.431 **ADVANCED CERAMICS (3)** Individually designed studio problems for advanced students in ceramics. Prerequisite: 1001.331.

1001.432 **CERAMIC RAW MATERIALS (3)** Lecture and laboratory investigation of ceramic materials as they apply to glazes, clay slips and clay bodies. Tests and problems in ceramic raw materials. Prerequisite: 1001.331 or equivalent.

1001.433 **ADVANCED PAINTING: OILS (3)** Individually selected studio problems in oils and related media for advanced students in area of special interest. Prerequisite: 1001.329.

1001.434 **ADVANCED PAINTING: WATERCOLOR (3)** Individually selected studio problems in watercolor and related media for advanced students in area of special interest. Prerequisite: 1001.330.

1001.440 **ADVANCED SCULPTURE (3)** Individually selected studio problems for advanced students in their area of special interest. Prerequisite: 1001.340 or 1001.342.

1001.449 **INTAGLIO PROCESS (3)** Personal expression in printmaking: Etching, drypoint, aquatint, engraving, and other intaglio processes. Prerequisite: 1001.103, 1001.111 or consent of instructor.

1001.451 **LITHOGRAPHIC PROCESS (3)** Personal expression through printing from Litho stones and plates. Prerequisite: 1001.103, 1001.111 or consent of instructor.

0831.455 **PRO-SEMINAR IN THE TEACHING OF ART (3)** A professional seminar for Art Education majors. Discussion of problems in the current teaching experience. Prerequisite: Permission of Department chairperson. Concurrent with student teaching. (Not for Graduate credit)

1001.461 **INTRODUCTION TO ART THERAPY I (3)** A survey of the concepts and procedures of creative expression in the service of personal understanding and development. Consideration of educational, rehabilitative and psychiatric settings. Lectures, discussions, workshops, and readings. Prerequisite: At least junior standing as a major in Art, Psychology, Health, Mental Health or associated fields. Approved work experience in one of the above fields may be substituted.

1001.462 **INTRODUCTION TO ART THERAPY II (4)** Continuation of Art Therapy I, the work of the therapist. Case studies, observations and participation in a variety of settings. Discussion, field work and readings. Prerequisite: 1001.461 or consent of instructor.

0831.471 **ADVANCED ART EDUCATION (3)** Art education problems at all levels; materials and skills in relation to classroom needs. Prerequisite: 0831.371 or equivalent.

0831.475 **TEACHING ART IN THE ELEMENTARY SCHOOL (3)** Concurrent course with 479, Art in the Secondary School. For course description see 479. Open only to Art Education Majors. Prerequisite: All major art requirements plus 1001.225, 1001.234, 0831.375, 2001.201 and 0803.319. (Not for Graduate Credit)

0831.477 **FIELD EXPERIENCE IN ART EDUCATION (2)** Initial field experiences in art teaching and observation under supervision. Prerequisite: Must be taken with 0831.475, 479. (Not for Graduate Credit)

0831.479 **TEACHING ART IN THE SECONDARY SCHOOL (3)** Theoretic basis of art education, the function of the art specialist, and instructional materials and skills. Concurrent course with 475. Prerequisite: All major art requirements plus 1001.225, 1001.234, 0831.375, 2001.201 and 0803.319. (Not for Graduate Credit)

1001.485 **SEMINAR IN ART HISTORY (3)** Intensive analysis of a defined historical period or stylistic development in art. Directed readings in both period and contemporary sources. Discussions and museum tours. Variety in content each year, may be re-elected. Prerequisite: 1001.121 and 1001.122 or consent of instructor.

1001.499 **SENIOR HONORS THESIS (4)** Honors in Art History or Art Education — Writing of a standard thesis based on individual research under the direction of a thesis advisor. Honors in Studio Area — An exhibition of work resulting from Honors Studio courses; a supporting paper defining philosophy and purpose written under the direction of a thesis advisor. Prerequisite: Admittance to Art Department Honors Program.

Graduate Division

1001.511 **DRAWING (3)** Advanced problems in expressive draftsmanship. Prerequisite: 1001.211 or consent of instructor.

1001.514-515-516 **GRADUATE STUDIO (2-3)** Independent work for graduate students in field of special interest. Prerequisites: Must have exhausted other courses in particular field or written consent of instructor. Student must make arrangements in advance of registration with instructor of his/her choice.

1001.529 **OIL PAINTING (3)** For students with previous experience in painting, consideration of current trends and styles; studio work, museum visits, lectures. Prerequisite: 1001.329 or equivalent.

1001.530 **WATERCOLOR (3)** Consideration of current trends and outstanding painters and styles. Studio work, museum visits, lectures. Prerequisite: 1001.330 or consent of instructor.

1001.531 **CERAMICS (3)** Advanced work in ceramic design and techniques of glazes, clay bodies, firing. Prerequisites: 1001.331 or consent of instructor.

1001.540 **SCULPTURE (3)** For students with previous experience in sculpture; consideration of current trends and styles; studio work, museum visits, lectures. Prerequisites: 1001.340 or 1001.241 or 1001.339 or 1001.342 or consent of instructor.

1001.551 **GRAPHICS: INTAGLIO, RELIEF (3)** Studio work for artists with basic knowledge of intaglio and/or relief processes. Aspects of mixed media explored. Prerequisites: 1001.349 or 1001.449 or equivalent.

1001.553 **GRAPHICS: LITHOGRAPHY, SERIGRAPHY (3)** Studio work for artists with a basic knowledge of lithography and/or serigraphy. Prerequisites: 1001.347 or 1001.451 or equivalent.

0831.595 **RESEARCH IN ART AND ART EDUCATION (3)** Methods of research applicable to art and art education. Examination of recent research in this field. Preparation

tion of research outline in area of choice. Prerequisite: Consent of instructor. Offered Fall Semester evening only.

0831.697 SEMINAR IN ART EDUCATION (3) Investigation of problems and theories in art education and related fields. To be taken as final course in master's program. Prerequisite: 0831.595 and consent of instructor. Offered 1st session of summer school.

1001.698 THESIS PROJECT (3) If approved, student will pursue his/her project in an exhibition of his/her work plus a paper defining the project's scope and philosophy. Prerequisite: Consent of Department chairperson.

1001.699 THESIS (3) A carefully executed research and accurate recording of a specific topic in art, art education, art history, or other approved area. Includes an outline of the proposed thesis submitted for inspection

and approval by the Art Department Graduate advisor. Prerequisite: 0831.697.

The Art Department offers a variety of highly specialized courses during the minimester session. Contact the Art Department for complete information on new courses which may not be included in this bulletin.

The following art education courses are supervised by members of the art faculty. Course descriptions will be found under the Education Department.

0802.497 STUDENT TEACHING IN ELEMENTARY SCHOOL ART.

0803.398 STUDENT TEACHING IN SECONDARY SCHOOL ART.



Arts and Sciences

Coordinator: GARY WOOD

The University offers a number of programs that afford students an opportunity to plan their own college programs, to follow individual interests, to experience a wide choice of courses from various departments and to prepare for certain specialized vocations. Interested students should consult one or more of the faculty advisors in the various programs as to requirements and procedures in declaring a major and pursuing a degree.

Departmental Office

Building — LI
Room — 119B
Phone — 321-2914

Programs

Liberal Arts & Sciences — Core Program
Liberal Arts & Sciences — Thematic Option
General Arts & Sciences — Core Program
General Arts & Sciences — Thematic Option
African-American Studies
American Studies
Asian Studies
Comparative Ethnic Studies
Computer Science Program
Dance Core
Environmental Studies
Health Services Management
History of Art Concentration
Latin American Studies
Law Enforcement
Medieval and Renaissance Studies
Religious Studies
Women's Studies

MAJOR A — The Liberal Arts and Sciences Major constructed around a "core" discipline in the traditional Liberal Arts and Sciences fields.

MAJOR B — The General Arts & Sciences Major constructed around a "core" discipline in General Studies, which incorporates all of the Arts and Sciences.

THEMATIC OPTION — A student may fulfill the requirements for either Major A or Major B by substituting a thematic plan for the "core" discipline. We recognize that it is possible for Major A to be constructed out of Major B. We have made a formal distinction, however, because we wished both to create a major which preserves the concept of "liberal" arts and sciences in its traditional and widely understood meaning, and also to create a major (B) which offers maximum freedom of choice. In this way, a student who elects the former will carry a distinctive label.

Major A — The Liberal Arts and Sciences Major

1. The student must satisfy General Education Requirements.
2. To declare the major, the student must be a sophomore or junior with a 2.0 CPA.
3. From the Liberal Arts and Sciences — Art, Biology, Chemistry, English, History, Modern Languages, Mathematics, Music, Philosophy, Physics and Theatre — the student must take a minimum of 45 semester hours of upper division course work. These 45 hours must in-

clude work from a minimum of 4 different departments. Eighteen credits must be from the Arts and 18 credits from the Sciences (Mathematics being considered a Science).

4. At least 15, but no more than 21, of the 45 upper division hours must come from one discipline which shall serve as the "core" discipline in the student's program.

Major B — The General Arts & Sciences Major

1. The student must satisfy General Education Requirements.
2. From the Arts and Sciences, which are construed to be the following — Art, Biology, Chemistry, Economics, English, Geography, History, Modern Languages, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Sociology, Speech and Theatre — the student must take a minimum of 45 semester hours of upper division course work. With the approval of the student's advisor and the appropriate associate dean, courses in departments not listed above may be allowed if these courses are needed to complement the student's program.
3. At least 15, but no more than 21, of the 45 upper division hours must come from one discipline which shall serve as the "core" discipline in the student's program.

Thematic Options to the Arts and Sciences Majors

With the approval of his advisor and the appropriate association dean, a student may elect to substitute a thematic plan for the "core" discipline in either Major A or B. By following this plan the student could develop an academic concentration in areas such as urban studies, American studies, environmental issues, etc.

Except for the following, the requirements will be the same as for Major A or B:

1. A minimum of 18, but not more than 36, of the 45 upper division hours must relate specifically to a chosen topic or theme.
2. All course work must be on an upper division level unless the faculty advisor approves the inclusion of some particularly significant course work at the lower division level. For example, a course important to the student's theme may exist only at the lower division level.

Thematic Option In Environmental Studies

The Environmental Studies Program is an interdisciplinary thematic option within the General Studies Major. The program is designed to provide students with the broad background in biology, chemistry, geography, health, mathematics, and physics essential for continued study or work in environment-related fields.

Administration of the program is conducted by an inter-departmental committee composed of one representative from each of the following disciplines: Biology, Geography, Health Sciences, and Physics. These committee members serve as faculty advisors to guide students in designing their individual course of study.

Curriculum

Required of all Environmental Studies majors are these

basic courses: Contemporary General Biology, General Chemistry I and II, Mathematics I, and Physics I and II.

Within the major the student is required to complete 45 upper division credits selected by the student and his/her advisor from courses that relate specifically to the environmental theme. The interdisciplinary nature of this program may require certain introductory level courses; therefore, the faculty advisor may allow a certain portion of these credits at the lower division level.

To provide a basic program for all students with this major, 18 to 36 credit hours should be selected from among prescribed courses in the biological and earth sciences. However, no more than 21 credits are allowed in one discipline. The remaining credit hours of additional work may then be chosen according to the student's choice of emphasis from among courses in the Biology, Chemistry, Geography, Health Sciences and Physics Departments.

General Education

The structure of a society and the related behaviors and systems of the members of that society are intimately involved in the complexities of environmental problems. A student who elects an option in environmental studies could benefit from courses that might help in developing a wholistic viewpoint suitable to the study of environment. Such courses should also include those useful in the development of skills necessary to the analysis and communication of ideas.

Some areas from which a student may be encouraged to select courses for general education and free electives include social and psychological sciences, economics, math and statistics, and health.

Advisory Committee

Lois Odell, Biology Department
Norman Diffenderfer, Geography Department
John Gay, Health Sciences Department
Loretta Molitor, Physics Department, Program Coordinator

Approved Electives Recommended To Law Enforcement Students

Business Administration: Accounting Principles I; Accounting Principles II; Business Law I; Business Law II; *Personnel Management.

Sociology: Practicum in Sociology.

Political Science: Introduction to Law; Constitutional Law.

* Please note possibility of additional prerequisites for certain courses.

AFRICAN-AMERICAN STUDIES PROGRAM

Advisory Committee

John Gissendanner, Coordinator of the Program, Department of English
Thomas Knox, Associate Dean, Student Services
Julius Chapman, Dean, Minority Affairs
James Lindner, Education Department
John Murungi, Philosophy Department
Alice McGill, Instructor, Lida Lee Tall
Ed Roulhac, Health Sciences
Alan Paulson, Library

Description and Rationale

The African-American Studies Program offers a student the opportunity to study in-depth the historical and cultural existence of the Afro-American by examining his un-

acknowledged roles in American society, and the presence and importance of the Black aesthetic culturally, socially, politically, and economically. An interdisciplinary program concentrating mainly in the humanities, the curriculum is subject to review and flexibility, as courses may be added or subtracted with the permission of the Advisory Committee and the Associate Dean.

Students may choose a major in the program, select courses to structure a major within the General Studies Program, or simply take courses as electives.

For further information, please contact one of the advisors.

Curriculum

Requirements

- A. American Literature 1501.211, 1501.212 recommended. United States History 2205.145, 146 required. Introduction to Sociology 2208.101 required.
- B. 15 hours of required courses in African-American Studies.

Black-American Literature I	1501.251
Black-American Literature II (Major Writers)	1501.252
History of Afro-Americans	2205.381
The African World to the Fifteenth Century	2205.133
The African World Since the Fifteenth Century	2205.134
- C. 15 hours chosen from the following courses (check department for the course description).

Literature of Black America	1501.401
Geography of Africa	2206.431
Urban Systems I	2206.391
Introduction to Urban Planning	2206.251
African Government and Politics	2207.341
Africa in World Politics	2207.435
Afro-American Perspectives	4901.401
History of West Africa 1500-1885	2205.334
History of Recent Africa	2205.335
Minority Groups	2208.343
Black White Relations	2208.470
Blacks in America: Myths and Reality	2208.241
Urban Sociology	2208.327
Urban Economics	2204.351
Black Art History	1001.109
Philosophical Perspective: African Philosophy	1509.270

New courses, special topics, and mini-mester courses may be accepted toward the major with approval of the committee.

0305.401 (4901.401) AFRO-AMERICAN PERSPECTIVES

(3) Afro-American Perspectives is a college credit course combining televised lessons, on-campus seminars, and related workbook assignments. This course focuses upon the experiences of Black people. The course utilizes a multi-discipline format and inter-disciplinary treatment. It is structured around several themes, inquiry into which will encourage scholarly development in an otherwise emotional arena. May be taken for Master's degree credit only with the approval of the appropriate graduate coordinator. Prerequisites: Either African History or Black American History or Black American Literature or consent of instructor.

AMERICAN STUDIES

Coordinator: PAUL DOUGLAS

The Program

The American Studies concentration within the General

Studies major at Towson State University is an interdisciplinary program that allows a student to take courses in different academic departments. The American Studies approach stresses the inter-relatedness of such elements in our society as the fine arts, architecture, popular culture, folklore, technology, and the vernacular arts. Students examine American institutions, ideas, and material forms in order to better understand their past and shape their future. Although the American Studies major will have a knowledge of literature, history, economics, and art, his main concern will be within the concept of culture as it applies to the United States.

The degree granted is the B.A. or B.S. in General Studies with a concentration in American Studies.

Who Should Major in American Studies

Those students desiring to pursue careers in American Studies. The program at Towson State provides an important foundation for graduate work at the M.A. or Ph.D. level in American Studies. Presently there are over fifty graduate programs in the United States offering American Studies degrees.

Those students who wish to do American Studies related work in fields such as teaching, historic preservation, journalism, museum administration, law, history, literature, and others.

Those students who may not have any concrete career goals but who desire a broad knowledge of American civilization and a methodology to understand and interpret it. The program welcomes older students who may apply their knowledge of our culture to their academic or intellectual interests.

Major Requirements

The following lower division courses must be taken by the American Studies major:

American Literature 1 and 2; or Black Literature 1 and 2
American History 1 and 2

Cultural Anthropology
American National Government

The following upper division courses are required:

Introduction to American Studies

Seminar in American Studies

American Literature core (15 hours) and
American History (6 hours)

or

American History core (15 hours) and
American Literature (6 hours)

American Studies related courses in various
departments (12 hours)

Additional courses in the Arts and Sciences (6 hours)

0313.301 INTRODUCTION TO AMERICAN STUDIES (3) The first part of the course will be an examination of the aims and methods of American Studies. The second part will be a study of a specific topic or period in American civilization by examining literature, the fine arts, architecture, history, technology, and popular culture. Prerequisites: 6 hours of American history or 6 hours of American literature, or a combination, or consent of instructor.

0313.481 SEMINAR IN AMERICAN STUDIES (3) Reading and research dealing with an aspect of American civilization and culture to be selected by the instructor. A seminar paper is required. Prerequisites: 0313.301.

0313.497 PRACTICUM IN MATERIAL CULTURE (3) Students will work with members of the cura-

torial staff at the Maryland Historical Society to learn various museum techniques, examine the collections at the Society, and understand the educational and scholarly uses of material culture. A minimum of 80 hours is required. Prerequisites: 0313.301 and consent of American Studies coordinator.

ASIAN STUDIES

Advisory Committee

David Firman, Geography
Edwin Hirschmann, History
Ock Kyung Lee, Art
Wayne McWilliams, History
Pritam Merani, Political Science
Bruce Robertson, Philosophy

The Asian Studies major within the General Studies program is designed to offer students an interdisciplinary program of study of various dimensions of the Asian world. The student may plan a course of study that concentrates on a particular aspect of Asian civilization or on a particular sub-region of Asia. One might, for example, focus on the art and philosophy of various Asian peoples, or instead, one might choose to concentrate on Chinese (or Indian or Japanese) civilization studying both the traditional and modern society, its physical setting, its political and economic development, etc. Specialization within Asian Studies is not, however, to be too narrowly focused since Asian Studies is itself to be considered a field of specialization. All Asian Studies majors will be expected to attain a general knowledge of the cultural, historical and geographical dimensions of the whole of Asia and to build their own specialized program upon a broadly based foundation of course work. Thus, in order to build a sound program of study, which meets both the individual student's needs and the General Studies requirements, it is essential that the student work closely with his advisor semester by semester in planning his program and selecting courses.

(A second option open to students interested in specializing in Asian Studies is the International Studies major with an area specialization (Plan B) about which see p.134 of this catalogue.)

Requirements

1. Six credit hours of a foreign language appropriate to the student's designated area of interest in Asia. In special cases this requirement may be waived, but only with the written permission of the advisory committee. The Asian language courses presently offered at Towson are listed below.
2. A minimum of thirty credit hours selected from the following list of courses, but with courses from at least four departments (excluding language) represented. The lower division courses marked by asterisks will be accepted as upper division courses for the purpose of meeting General Studies requirements. Other courses not shown on the list, but which are relevant to Asia (such as directed readings courses and minimester courses), may be accepted with the approval of the advisory committee. (Course descriptions are given only for the 4901 General Studies series; for all other courses listed check departments for course descriptions.)

ART

1001.131	THE ART OF CHINA (3)*
1001.132	THE ART OF JAPAN (3)*

4901.140 PERSPECTIVES ON ORIENTAL ART (3)
Lectures, displays and discussions by a number of experts on the various types of oriental art. The course is designed to acquaint the novice and the experienced as well with deeper insights into the oriental culture through an examination of art objects in the college's own collection; additional objects brought by guest speakers themselves, and by discussions led by guest experts.

1108.205 CLASSIC JAPANESE ARTS AND CULTURE (2) Study of Japanese arts and culture from c. 1000 A.D. to 1900 A.D. through directed independent readings.

GEOGRAPHY

2206.443 GEOGRAPHY OF EAST ASIA (3)
2206.445 GEOGRAPHY OF SOUTH AND SOUTHEAST ASIA (3)

2206.447 ECONOMIC AND POLITICAL GEOGRAPHY OF THE MIDDLE EAST (3)

2206.485 SEMINAR: SOUTH ASIA (3)

2206.671 SEMINAR IN REGIONAL GEOGRAPHY (3)

HISTORY

2205.107 INTRODUCTION TO ISLAMIC HISTORY (3)*

2205.109 INTRODUCTION TO THE CIVILIZATION OF INDIA (3)

2205.111 TRADITIONAL EAST ASIA: CHINA, JAPAN AND KOREA (3)*

2205.112 MODERN EAST ASIA: CHINA, JAPAN AND KOREA (3)

2205.311 HISTORY OF INDIA TO 1750 (3)

2205.312 HISTORY OF INDIA AND PAKISTAN (3)

2205.313 HISTORY OF MODERN SOUTHEAST ASIA (3)

2205.316 HISTORY OF MODERN CHINA (3)

2205.317 HISTORY OF MODERN JAPAN (3)

LANGUAGE

1108.101-102 JAPANESE ELEMENTS I, II (3, 3) Development of elementary vocabulary and sentences, forms of written language, conversation, composition and translation. This course will be given using the techniques of programmed instruction.

1107.101-102 ELEMENTARY MODERN CHINESE I, II (3, 3) The first and second of a series of four courses in Chinese language. An introduction to standard modern Chinese (Mandarin). Emphasis is on reading and writing of Chinese. Pin Yin, the phonetic system of pronouncing Chinese words is introduced. Text, sound tape type and vocabulary cards.

1108.201-202 JAPANESE INTERMEDIATE I, II (3, 3) Review of elementary Japanese; intermediate kanji; conversation and prose composition; translations, outside reading commensurate with the ability of the individual student. This course will be given using technique of programmed instruction. Prerequisites: 1108.101-102.

PHILOSOPHY — RELIGION

1509.301 PHILOSOPHIES OF INDIA (3)

1509.302 PHILOSOPHIES OF CHINA AND JAPAN (3)

1509.457 COMPARATIVE RELIGION I (3)

1509.458 COMPARATIVE RELIGION II (3)

POLITICAL SCIENCE

2207.338 COMPARATIVE GOVERNMENT: RUSSIA AND THE EAST (3)

2207.439 U.S. FOREIGN POLICY IN SOUTHEAST ASIA (3)

2207.445 U.S. FOREIGN POLICY IN SOUTH ASIA (3)

SOCIOLOGY — ANTHROPOLOGY

2205.367 PEOPLES OF THE MIDDLE EAST (3)

ALSO

4901.421 INTERDISCIPLINARY WORKSHOP IN ASIAN STUDIES (3) Intensive study of a chosen region of Asia, including its physical environment, historical development, government, society, culture and their inter-relationship. An interdisciplinary team of faculty experts will participate, and the region of Asia will vary according to demand. Prerequisites: Approval of the coordinator.

COMPARATIVE ETHNIC STUDIES PROGRAM

Advisory Committee

Douglas Martin, History
Evelyn Avery, English
Anthony Cacossa, Modern Languages
Vincent Colimore, Education
Dean Esslinger, History
John Gissendanner, English
Jorge Giro, Modern Languages
Hlib Hayuk, Geography
Elaine Hedges, English
Barbara Leons, Anthropology
James Lindner, Education
Antoinette Marzotto, Political Science
Jean Scarpaci, History

Description and Rationale

The Comparative Ethnic Studies concentration within the General Studies major is an interdisciplinary program that provides literary, historical, political, sociological, economic and geographic perspectives on American ethnic groups with an emphasis on Baltimore's communities. Courses examine the impact of race, religion, family and community on Ethnic-Americans and their development in the United States.

The Comparative Ethnic Studies program prepares students to live in a multi-ethnic society and for positions in education, social work, personnel, human relations, labor relations, urban planning, mental health, government service and other areas where an awareness of ethnic diversity, problems, and needs are essential.

Curriculum

A. United States History recommended 2205.145, 2205.146
American Literature recommended 1501.212
Introduction to Sociology recommended 2208.101
45 upper division hours are required for graduation and may be taken in Comparative Ethnic Studies and in other disciplines.

B. 9 hours required

Introduction to Comparative Ethnic Studies 4901.241
Ethnic-American Literature 1501.261
The Immigrant in American History 2205.377

C. 18-27 hours chosen from the following courses

*Topics in Multi-Ethnic American Literature 1501.475
The City in American History 2205.375
Indian-White Relations in American History 2205.379
Oral History: Ethnic Communities of
Baltimore 2205.489
Urban Economics 2204.351

Urban Government & Politics	2207.305
Geography of Population and Settlement	2206.385
The Young Black Child in a Multi-Cultural Setting	0823.425
History of Afro-Americans	2205.381
Literature of Black America	1501.401
Minority Groups	2208.343
Blocks in America: Myths and Reality	2208.343
Urban Sociology	2208.327

Up to seven credits of related language courses at an appropriate level with the approval of the committee.

4901.241 INTRODUCTION TO COMPARATIVE ETHNIC STUDIES (3) The course will focus on Baltimore's ethnic groups as a microcosm of American society, and will examine the interaction of ethnic communities (Black, Jewish, Italian, Greek, Eastern-European, Irish, and others) in Baltimore. The interdisciplinary approach will use the talents of social scientists, community representatives, and public school personnel as consultants and guest lecturers.

* Topics in Multi-Ethnic Literature may be taken only once for credit within 18 hours. However, with permission, it may be taken for major credit twice within 27 hours.

COMPUTER SCIENCE PROGRAM

The Program

The Computer Science area of concentration within the General Studies Major allows the student who is interested in a computer oriented career in teaching, research, business, engineering or applied mathematics to lay groundwork and develop in this specialized vocation.

Major Requirements

Computer Science

0701.235 Fundamentals of Computing
 0701.236 Structured Programming or 0701.306
 0701.315 Survey of Programming Languages
 0701.336 Data Structures and Sorting Techniques
 0701.338 Computer Organization and Programming
 0701.339 Operating Systems Principals
 0701.437 File and Data Structures
 (an additional two upper division electives in Computer Science)

Mathematics

1701.377 Mathematical Models [Prereq: 1701.274]
 1701.435 Numerical Analysis [Prereq: 1701.274]

An additional Course from among the following six:

1701.331 Probability
 1701.332 Mathematical Statistics
 1701.365 Linear Algebra
 1701.436 Numerical Analysis II
 1701.451 Math Research in Graph Theory
 1902.337 Digital Electronics

The degree granted is the A.B. or B.S. in General Studies.

DANCE CORE

Coordinator: HELENE BREAZEAL

Description and Rationale

The Dance Core within the General Studies major is designed to offer students a total spectrum of Dance from its physical activity to its expression as a creative art form utilizing a variety of disciplines. In its over 50 elective

credits, the program offers a wide range of flexibility for the student to pursue additional interdisciplinary studies, focus on specific areas of Dance through independent studies, or to double-major in another field of study.

In following the requirements for a Dance Core Major, students will be equipped to pursue careers in performance and choreography. By including many of the recommended electives (listing available from the Dance Coordinator), students will be prepared for graduate studies in Dance Education and/or Dance Therapy. Other career opportunities in Dance include teaching, research and history, notation, and journal criticism. Professions directly related to Dance include: lighting, costuming, decor, technical production, film making, music (composing and accompanying), administration and management.

Students with previous experience should arrange a placement examination with the Program Coordinator to determine the technical level of the student in order to be placed in classes accordingly.

Curriculum

Requirements

Physical Education

*0835.371-372 Intermediate Ballet I and II (1, 1)
 *0835.374-375 Advanced Ballet I and II (1, 1)
 *0835.376-377 Advanced Modern Dance I and II (1,1)
 *0835.378 Jazz Dance II (1)
 *0835-361 History of the Dance (3)
 0835.363 Modern Dance Composition (3)
 *0835.365-366 Choreographic Problems I and II (3, 3)
 *0835.313 Physiology of Exercise (3)

Music

*1005.301-302 History of Music I, II (summer only) or 2 period music courses (i.e. Contemporary Music, Music of the Classical Period, etc.) (3, 3)

Theatre Arts

1007.231 Mime I (3)
 1007.245 Stage Make-Up I (2)
 1007.355 Stage Lighting (3)
 1007.441 Costume Design (3)

Philosophy

*1509.343 Aesthetics (3)

* These courses contain prerequisites

Required Prerequisites or Equivalent Experience

0835.076-077 Beginning Modern Dance I and II (1, 1)
 0835.074-075 Beginning Ballet I and II (1, 1)
 0835.078 Jazz Dance I (1)
 0835.276-277 Intermediate Modern Dance I and II (1, 1)
 0401.101 Contemporary General Biology (4)
 0401.113-114 Human Anatomy and Physiology I and II (4, 4)
 1509.101 Introduction to Philosophy (3)
 1005.101 Introduction to Music Literature (3)
 0832.233 Music Fundamentals (2)

Elective Dance Courses Include:

0835.380-381 Pointe Technique I and II (1, 1)
 0835.279 Techniques of Teaching Creative Movement (1)
 0835.425 Methods of Teaching Dance in the Schools (3)

0835.001	Minimester Dance Workshop (2-3)
0835.196, 296, 396, 496	Independent Studies (.5-3 each)
0835.070	Folk Dance I (.5)
0845.072	Social Dance (.5)

HEALTH SERVICES MANAGEMENT PROGRAM:

Coordinator: NEIL E. GALLAGHER, Ph.D. (Health Science)

Description and Rationale

The Health Services Management program is designed to help prepare students for management careers as administrative assistants, nursing home administrators, health planners, hospital or health care administrators, or varieties of middle management personnel such as department heads or supervisors. Depending upon student interests and availability of positions, graduate training in health administration may be desirable after completing this program.

Curriculum

In addition to the General University Requirements, the following courses are required for the thematic option in Health Services Management:

Health Courses — total of 12 credits

Business Administration — total of 12 credits

Other required courses — total of 19 credits

Necessary Prerequisites

1201.101	Current Health Problems
0506.201-202	Accounting Principles I, II
2204.101-102	Economic Principles & Problems I, II
2208.101	Introduction to Sociology
2207.103	American National Government
1701.237	Elementary Biostatistics

Twelve additional credits of upper division electives should be completed to fulfill University Requirements.

Required Courses

Health Science

1201.202	Principles & Practices in Community Health
1201.207	Health Care in the United States
1201.311	Chronic & Communicable Disease
	Upper Division Health elective

Business Administration

0506.325	Business Law I
0506.331	Financial Management
0506.381	Personnel Management
	Upper Division Business Administration elective

Other Required Related Courses

2204.201	Economics of Health
0701.235	Fundamentals of Computing
2208.391	Research Methods
2207.375	Public Administration
1501.333	Writing for Business and Industry
	Laboratory Science elective

THE HISTORY OF ART CONCENTRATION

Interested students should contact either Dr. Ladd or Dr. Miller in the Fine Arts Building.

The History of Art Concentration, within the Liberal

Arts Major, is a program which offers undergraduates the opportunity to explore the discipline of the History of Art in considerable depth. This investigation, performed well, leads to an understanding of the structure and function of the discipline. Also, it prepares the student for graduate work and offers an excellent background for many types of careers related to the study of the History of Art.

Requirements for the History of Art Concentration:

Core Discipline: At least 15, but no more than 21, of the upper division hours must come from one discipline.

From the upper division the student may select from the following:

1. At least one course from 1001-323, 324, or 325.
2. At least two courses from 1001-343, 344, 345, or 346.
3. Art 1001-391, Research in Art History and Art 1001-485, Seminar in Art History are required.

The Language Requirement: Two years of either French or German or the equivalent examination is required to complete the program (elective for B.A. Liberal Arts degree).

History of Art Courses Available:

Lower Level:

1001.131	The Art of China
1001.132	The Art of Japan
1001.121	Prehistoric to Medieval Arts
1001.122	Renaissance to Contemporary Art
1001.206	Architectural Concepts
1001.216	The Image of Women in Art

Upper Level:

1001.323	Picasso to the Present
1001.324	Henry Moore to the Present
1001.325	Frank Lloyd Wright to the Present
1001.343	Greek and Roman Art
1001.344	Byzantine to Gothic Art
1001.345	Italian Renaissance Art
1001.346	The Baroque and the 18th Century
1001.391	Research in Art History
1001.485	Seminar in Art History

Honors Programs: The student may elect to take the honors program in the History of Art. Eligibility requirements governing the college honors program are described in this catalog.

LATIN AMERICAN STUDIES PROGRAM

Advisory Committee

Frank Sanders, History
M. Barbara Leons, Anthropology
Jorge Giro, Modern Languages
David Dent, Political Science
Kenneth Haddock, Geography

Description and Rationale

The Latin American Studies concentration within the General Studies major allows the student to approach the study of Latin America as an area from an interdisciplinary perspective. It would be an appropriate concentration for those intending to pursue Latin American Studies or Spanish on the graduate level, for those anticipating living or working in Latin America, or for those wishing to acquire expertise in Latin America for a career in business or government.

The Latin American Studies Program is administered by the Latin American Studies Committee. The student

should select one of the members of the committee as an advisor.

Curriculum

Requirements

- 1. Spanish Composition and Conversation (1205.301) or its equivalent.
- 2. Thirty credits chosen from the following Latin American related courses. The courses must be selected from at least four of the five departments represented. (The student is reminded that a total of 45 Upper Division hours is required for the completion of a General Studies major.)

Spanish

- 1105.312 Culture & Civilization of the Spanish-Speaking Peoples II
- 1105.435 19th Century Spanish American Literature I
- 1105.436 19th Century Spanish American Literature II
- 1105.443 20th Century Spanish American Literature I
- 1105.444 20th Century Spanish American Literature II
- 1105.491 Directed Readings in Spanish Literature
- 1105.492 Directed Readings in Spanish

Anthropology

- 2202.366 South American Indians
- 2202.377 Societies & Cultures of Latin America
- 2202.495 Independent Research

Political Science

- 2207.351 Government & Politics of Latin America
- 2207.355 Latin American Policy of the U.S.
- 2207.437 Castro and the Cuban Revolution
- 2207.490 Independent Study

Geography

- 2206.461 Geography of South America
- 2206.463 Geography of Central America and the Caribbean
- 2206.495 Directed Reading in Geography

History

- 2205.121 Latin America: Colonial Period
- 2205.122 Latin America: National Period
- 2205.321 History of Mexico: Pre-Columbian and Colonial
- 2205.322 History of Mexico: National Period
- 2205.325 History of Indians in Latin America: Maya, Aztec, & Inca

LAW ENFORCEMENT AND CORRECTION

Advisory Committee

- Dr. Dean Esslinger, History Department
- Dr. John Gay, Health Science Department
- Dr. Michael Grossman, Political Science Department
- Dr. Ruthellen Josselson, Psychology Department
- Dr. John Toland, Sociology Department

This Thematic Option has the following objectives:

- 1. To provide in-service law enforcement and correctional personnel the opportunity to further their education beyond the junior college with a minimum loss of credits from their junior college program.
- 2. To provide an interdisciplinary degree with a strong emphasis on sociology, psychology and political science.

- 3. To provide the community with law enforcement personnel who are able to make good value judgments, to maintain their perspectives, to understand underlying causes of human behavior, and to communicate clearly and precisely.
- 4. A number of courses associated with the areas of "Police Science" or "Criminal Justice" are not taught at Towson State University; however up to 24 transfer credits of such courses are accepted on an elective basis. These credits may provide extra qualification for some types of Law Enforcement employment. Towson students wishing to take such courses at the community colleges should do so during their first two years.

The specific requirements of this thematic option will consist of the following upper division courses to be taken at Towson State College or a cooperative school:

Health: 6 credits beyond Current Health Problems. Sex Education and Family Living or Human Sexuality; and Drugs in our Culture.

History: 6 credits beyond U.S. I and II, chosen from the following: Social History U.S. to 1865; Social History U.S. since 1865; Constitutional History U.S. to 1868; Constitutional History U.S. since 1868; City in American History; Immigrant in American History; History of Afro-Americans.

Political Science: 6 credits beyond American National Government. Urban Government & Politics; and Public Administration.

Psychology: 9 credits beyond General Psychology, chosen from the following: Mental Hygiene, Abnormal Psychology, Social Psychology, Adolescent Psychology, Personality, Interviewing Techniques. Mental Hygiene or Abnormal Psychology is required.

Sociology: 9 credits beyond Introduction to Sociology, chosen from the following including Juvenile Delinquency; and Criminology. Criminology; and Juvenile Delinquency PLUS one of the following: Social Welfare; *Urban Sociology; Community Organization; Minority Groups; Collective Behavior; Social Deviance.

THEMATIC OPTION-MEDIEVAL AND RENAISSANCE STUDIES

Advisory Committee

- Rene Debrabander, Philosophy
- Robin Hatcher, English
- Jenny Jochens, History
- Frederick Ladd, Art
- Armin Mruck, History

Description and Rationale

By electing the concentration in Medieval and Renaissance Studies, majors in the General Arts and Sciences receive the opportunity for comprehensive interdisciplinary study of the Medieval and Renaissance period. A degree in Medieval and Renaissance Studies can lead to fulfilling careers in such areas as teaching, museum work, archival research, and freelance writing, as well as to interdisciplinary graduate studies in the Middle Ages and the Renaissance. As a second major, this concentration provides a special perspective on almost any other field of study. Students in this field can have unique opportunities

to study the Medieval and Renaissance collections at Baltimore's Walters Art Gallery, Washington's Folger Library, the National Gallery of Art, and Dumbarton Oaks.

Curriculum

Students with this thematic option will earn the Bachelor of Arts degree. Like all General Arts and Sciences majors, students choosing this concentration must take at least 45 semester hours of upper division course work from the Departments of Arts and Sciences. Of these, at least 36 hours shall consist of course work in subjects related to the Middle Ages and the Renaissance (List I below). 18 of the 36 hours shall be distributed as follows:

- 6 hours in English
- 6 hours in History
- 6 hours from two of the following departments:
Art, Modern Languages, and Philosophy.

The remaining 18 hours may be distributed according to the student's choice, except that no more than 21 hours may come from a single department.

Directed readings, research methods, independent study, honors thesis or mini-mester courses in Medieval and Renaissance topics, when approved by the Medieval and Renaissance Studies Committee, may be undertaken within the requirements of the departments that offer them and with the approval of the teaching faculty member. Instruction in Latin for students who wish it can be arranged through the Department of Modern Languages.

I. Upper-Division Courses Applicable to a Medieval and Renaissance Studies Concentration

An asterisk marks those courses whose subject matter changes from semester to semester and which hence are not always applicable to the Medieval and Renaissance Studies concentration. Before pre-registration, the Committee will make available a list showing which asterisked courses are applicable to Medieval and Renaissance Studies for that semester. The subject matter of some of these courses can be arranged according to students' individual interest. Students wishing to use such courses towards their Medieval and Renaissance Studies concentration should consult with their advisors in the program and with the course instructor during the semester before they intend to take the course.

Department of Art

- 1001.344 Byzantine to Gothic Art
- 1001.345 Italian Renaissance Art: 15th-16th Centuries
- 1001.485 *Seminar in Art History

Department of English

- 1501.302 The English Renaissance
- 1501.303 17th Century Poetry and Prose
- 1501.319 English Medieval and Renaissance Drama
- 1501.340 Medieval Literature
- 1501.410 Chaucer
- 1501.412 Milton
- 1501.415 Shakespeare (Comedies)
- 1501.416 Shakespeare (Tragedies)
- 1501.430 History of the English Language
- 1501.471 *Topics in World Literature
- 1501.472 *Topics in English Literature
- 1501.485, 486 *Seminar in English Studies I, II
- 1501.491 *Directed Reading in English
- 1501.494 *Travel and Study

Department of Geography

- 2206.451 Geography of Europe

Department of History

- 2205.303 Hellenistic Civilization
- 2205.304 Ancient Greek Civilization
- 2205.305 Ancient Roman Civilization
- 2205.401 The Early Middle Ages: 300-1050
- 2205.402 The High Middle Ages: 1050-1350
- 2205.403 The Renaissance Era: 1300-1530
- 2205.404 The Reformation: 1500-1648
- 2205.417 Economic History of Europe to the Mid-Eighteenth Century
- 2205.419 European Intellectual History to 1789
- 2205.461 *Seminar in European History
- 2205.483 *Directed Individual Research
- 2205.491 *Biographical Studies in History
- 2205.492 *Historical Themes
- 2205.494 *Travel and Study
- 2205.496 *Colloquium
- 2205.497 *Directed Reading
- 2205.499 *Senior Thesis

Department of Modern Languages

- 1102.321 Survey of French Literature I
- 1102.470 *Special Topics in French
- 1102.491 *Directed Reading in French Literature
- 1103.321 Survey of German Literature I
- 1103.491, 492 *Directed Readings in German
- 1104.321 Survey of Italian Literature I
- 1105.321 Survey of Spanish Literature I
- 1105.491 *Directed Reading in Spanish Literature

Department of Music

- 1005.301 History of Music I
- 1005.401 Music Prior to 1600

Department of Philosophy

- 1509.321 Pre-Socratic and Classical Greek Philosophy
- 1509.322 Late Classical and Medieval Philosophy
- 1509.323 Late Medieval and Renaissance Philosophy
- 1509.440-49 *Philosophical Systems
- 1509.470-79 *Philosophical Problems
- 1509.495 *Research Tutorial in Philosophy

Department of Theatre Arts

- 1007.321 Acting III [Shakespearean Roles]

II. Lower and Upper Division Courses Recommended for Students concentrating in Medieval and Renaissance Studies

This list contains (1) lower-division courses whose content is largely in the Medieval and Renaissance areas or their backgrounds; and (2) lower- and upper-division courses whose methodologies are valuable to students of the Middle Ages or the Renaissance. The upper-division courses can be counted towards the student's 45 semester hours in the General Arts and Sciences.

Department of Art

- 1001.105 Art in the Culture
- 1001.121 Prehistoric to Medieval Art
- 1001.122 Renaissance to Contemporary Art

Department of Communication Arts and Sciences

1598.403 Classical and Modern Rhetoric

Department of English

- 1501.201 Readings in World Literature I
- 1501.204 English Literature I
- 1501.226 Introduction to Classical Mythology
- 1501.326 Myth and Literature
- 1501.328 History and Literature of the Old Testament
- 1501.347 Folklore and Literature

Department of History

- 2205.101 Introduction to Ancient Civilization
- 2205.201 Survey of English History to 1783
- 2205.241 History of European Civilization through the
Seventeenth Century
- 2205.498 Philosophy of History

Department of Philosophy

- 1509.354 Philosophy of Biblical Literature:
Old Testament
- 1509.454 Philosophy of Biblical Literature:
New Testament

Department of Sociology and Anthropology

- 2202.207 Cultural Anthropology
- 2202.388 Peasant Cultures

Department of Theatre Arts

- 1007.105 Theatre and Humanities I
- 1007.106 Theatre and Humanities II
- 1007.241 Costume History and Design:
Egypt to Renaissance

Honors Program

Students interested in earning Honors in Medieval and Renaissance Studies should see their advisor in the program.

RELIGIOUS STUDIES THEMATIC OPTION

The Religious Studies concentration is an interdisciplinary program which offers students the opportunity to study religion from a variety of perspectives. The program is administered by a faculty committee: John B. Boles, History; Stephen Bailey, Psychology; Jenny Jochens, History; Justine Jones, Sociology; Bruce Robertson, Philosophy and Gary Wood, English.

As in all thematic options, 45 credits must be taken in upper division courses. For the religious studies option, 36 credits must be from the approved list of courses having substantial religious content. No more than four lower division credits may be applied to this 36 credit requirement, and no more than 21 of the 36 credits may be taken in any one department. The distribution of 18 of the 36 credits must be: six from the Department of History, six from the Department of Philosophy & Religion, and six from other departments.

Directed readings, research methods, independent study, honors thesis or mini-mester courses in religious topics, when approved by the religious studies committee, must be undertaken within the requirements of the department that offers them and with the approval of the teaching faculty member.

The following courses are approved for credit in the religious studies option. However, courses marked with an asterisk are only applicable during semesters when they have been approved for credit by the religious studies

committee. The committee shall meet prior to pre-registration each semester to determine which of the courses marked with an asterisk shall be applicable for credit to the religious studies program for the following semester. Students may also apply to the committee for approval of transfer credits from other colleges into the religious studies option within the existing college rules for transfer.

Approved Course List

(* indicated approval required each semester offered)

Department of Art

- 1001.131 The Art of China
- 1001.132 The Art of Japan
- 1001.343 Greek and Roman Art
- 1001.344 Byzantine to Gothic Art
- 1001.345 Italian Renaissance Art: 15th & 16th Centuries
- 1001.346 The Baroque and 18th Century
- 1001.485 *Seminar in Art History

Department of English

- 1501.213 *Ideas in Literature
- 1501.226 Introduction to Classical Mythology
- 1501.471 *Topics in World Literature
- 1501.472 *Topics in English Literature
- 1501.473 *Topics in American Literature
- 1501.326 *Myth and Literature
- 1501.328 History and Literature of the Old Testament
- 1501.485 *Seminar in English Studies I
- 1501.486 *Seminar in English Studies II
- 1501.491 *Directed Reading in English
- 1501.494 *Travel and Study

Department of History

- 2205.277 A Survey of Jewish History
- 2205.303 Hellenistic Civilization
- 2205.371 Religion in Early America
- 2205.372 Religion in Modern America
- 2205.400 *Seminar in American History
- 2205.401 The Early Middle Ages, 300-1050
- 2205.402 The High Middle Ages, 1050-1350
- 2205.404 The Reformation: 1500-1648
- 2205.461 *Seminar in European History
- 2205.491 *Biographical Studies in History
- 2205.492 *Historical Themes
- 2205.494 *Travel and Study
- 2205.495 *Seminar in Comparative Studies
- 2205.496 *Colloquium
- 2205.497 *Directed Reading

Department of Philosophy and Religion

- 1509.301 Philosophies of India
- 1509.302 Philosophies of China and Japan
- 1509.322 Late Classical and Medieval Philosophy
- 1509.341 *Ethics
- 1509.354 Philosophy of Biblical Literature:
Old Testament
- 1509.410 *Contemporary Ethical Problems
- 1509.470-479 *Philosophical Problems
- 1509.421 Archaeology of Palestine and Trans-Jordania
- 1509.451 Philosophy of Religion
- 1509.454 Philosophy of Biblical Literature:
New Testament
- 1509.455 Hellenistic Era
- 1509.457 Comparative Religion I
- 1509.458 Comparative Religion II
- 1509.459 Protestant, Catholic, Jew

- 1509.461 Historical Geography and Archaeology of Palestine
- 1509.463 Modern Atheism
- 1509.495 *Research Tutorial in Philosophy

Department of Psychology

- 2001.381 *Readings in Psychology
- 2001.385 *Seminar in Psychology
- 2001.491 *Independent Investigation in Psychology
- 2001.499 *Senior Thesis in Psychology

Department of Sociology and Anthropology

- 2208.470-479 *Special Topics in Sociology
- 2208.485 Seminar in Sociology
- 2208.495 *Independent Research
- 2202.364 Religion, Magic and Witchcraft
- 2202.470-479 *Special Topics in Anthropology
- 2202.495 *Independent Research

WOMEN'S STUDIES

Advisory Committee

Sara Coulter, English
 Jo Ann Fuchs, Philosophy
 Elaine Hedges, English
 Judy Markowitz, Women's Studies
 Joan Rabin, Psychology
 Jennie Jochens, History
 Jane Sheets, Modern Languages
 Elaine Solez, English
 Fran Rothstein, Anthropology
 Jan Wilkatz, English

The Women's Studies concentration within the General Studies major is an interdisciplinary program which offers students the opportunity to study the particular nature and role of women as individuals and as members of society. The concentration consists of nine hours in a core curriculum of three interdisciplinary courses: 2296.231 Women in Perspective, 2296.331 Women in Society, and 2296.332 Women's Culture and Creativity plus a minimum of eighteen hours selected from department courses in Women's Studies. 2296.231 Women in Perspective is strongly recommended as preparation for any upper division work in Women's Studies. Each program is individually tailored to the needs and interests of the student. Students must consult with a Women's Studies faculty advisor to plan their program. The student is reminded that a total of forty-five upper division hours, including the hours in Women's Studies, is required for the completion of a General Studies Major.

The Women's Studies concentration is administered by a committee of faculty and students. The faculty members on the committee will serve as advisors to students majoring in the program.

The following interdisciplinary and departmental Women's Studies courses are currently in the curriculum. More courses are under development. The departmental courses can be taken as electives for departmental credit and/or applied to the thematic concentration in Women's Studies.

Interdisciplinary General Studies

- 2296.231 Women in Perspective
- 2296.331 Women in Society
- 2296.332 Women's Culture and Creativity

- 2296.491 Directed Readings in Women's Studies
- 2296.496 Practicum in Women's Studies

Department of Art

- 1001.216 The Image of Women in Art

Department of Economics and Political Science

- 2207.472 Special Topics in Political Science: Women in the Law

Department of Education

- 0801.463 Gender Identity in Education

Department of English

- 1501.474 Topics in Women's Studies: Women Writers
- 1501.474 Topics in Women's Studies: Women and Drama
- 1501.474 Topics in Women's Studies: Women Poets
- 1501.271 Themes in American Literature: Women in Fiction

Department of History

- 2205.491 Biographical Studies in History: British and American Women
- 2205.492 Historical Themes: African American Women in History
- 2205.411 History of European Women

Department of Modern Languages

- 1102.437 Women in Foreign Literatures in Translation: Frenchwomen, Myth and Reality
- 1102.437 Women in Foreign Literatures in Translation: European Fiction by Women

Department of Philosophy

- 1509.331 Concepts of Woman: An Historical Approach
- 1509.44- Philosophical Systems: Simone de Beauvoir
- 1509.47- Philosophical Problems: Contemporary Feminist Philosophy

Department of Physical Education

- 0835.441 The Sportswoman in American Society

Department of Psychology

- 2001.323 Psychology of Women

Department of Sociology and Anthropology

- 2202.321 Sex Roles in Cross Cultural Perspective

2296.231 WOMEN IN PERSPECTIVE (3) A survey of the past, present, and possible future place of women as individuals and as members of society. Topics include marriage, motherhood, education, jobs, sexuality, race and class.

2296.331 WOMEN IN SOCIETY (3) An examination of the distinctive role and contribution of women in society from the perspectives of several disciplines, primarily the social sciences. Prerequisites: 6 hours in the social sciences.

2296.332 WOMEN'S CULTURE AND CREATIVITY (3) Study of selected art and literature by women with emphasis on the nature of the contributions of women and the conditions for creativity. Prerequisites: 6 hours in art and/or literature.

2296.337 FEMINISM: IDEOLOGY FOR CHANGE (3) An examination of feminism as an ideology and the application of that ideology in attempts, past and present, to achieve political, social, and economic equality for women. Stu-

dents will read major theorists and study movements, as well as consider the current application of feminists concepts as tools for analysis of sexual oppression. Prerequisite: 3 hours in social science or 3 hours in Women's Studies or consent of instructor.

2296.491 (4901.491) DIRECTED READING IN WOMEN'S STUDIES (1-4) Independent reading in Women's Studies with emphasis on interdisciplinary relationships. Topic selected by student in consultation with the instructor. Prerequisites: 15 hours in interdisciplinary or departmental Women's Studies courses; minimum 3.00 average in Women's Studies; consent of instructor and coordinator of Women's Studies. May be repeated for credit.

2296.496 (4901.496) PRACTICUM IN WOMEN'S STUDIES (3 or 6) Field placement for students in agencies or organizations working on projects which serve women. May be repeated for credit, but only three credits may be counted in the minimum forty-five credits required in the General Studies major. Prerequisite: Upper level or graduate standing; 2296.231; one other Women's Studies course and consent of instructor.

THE MINOR IN WOMEN'S STUDIES

In addition to the Major in Women's Studies a minor is available in this area. A minor is, in fact, the way in which many students are using our courses and the way in which we are advising some students to use our courses. That is, many students will wish to major in a traditional subject (History, English, Sociology), but want to take special work in women within that subject, to which end they take many Women's Studies courses. Some students plan to do graduate work in a traditional discipline, with emphasis on women within it.

Program Requirements

2296.231 Women in Perspective (3 credits) plus 15 hours in other departmental or General Studies Women's Studies courses, at least 12 hours of which shall be on the 300-400 course level.

SECOND DEGREE PROGRAM FOR WOMEN IN MANAGEMENT

Advisory Committee

Sara Coulter
Elaine Hedges
Olga Quintana
Elaine Solez
Betty Strauss
Annette Flower, Ex Officio

Description and Rationale

The second degree program for Women in Management is specifically designed for those women who aspire to start or further a management career.

Many women in industry possess the interest and ability to assume managerial leadership positions but their undergraduate degree did not provide them with the specific skills and knowledge necessary for advancement in the business world.

This new second degree program will provide women with a course of study which is specifically tailored to the individual need of each student.

Professional counselling by participating faculty is available.

Program Requirements

Business Administration

21 hours of Business Administration courses specifically designed to meet the career needs of the student including Seminar for Women Managers.

English

1501.333 Writing for Business and Industry
1501.334 Advanced Informational Writing

Psychology*

2001.409 Organizational Psychology
2001.209 Consumer Behavior
2001.330 Psychology of Individual Differences
2001.111 Behavioral Statistics
2001.323 Psychology of Women

Sociology*

2208.231 Social Problems
2208.341 Social Stratification
2208.331 Organizations

Women's Studies*

2296.231 Women in Perspective
2296.331 Women in Society
2207.472 Special Topics in Political Science: Women and the Law

Speech*

0605.315 Business and Professional Speech

Economics*

2204.101, 102 Economic Principles I and II
2204.323 Money and Banking
Other upper level Economics courses depending on need or interest of student
Total required course credits — 45 (only six hours are allowed for lower division courses)

* Four out of the above five disciplines must be represented in the degree program.

GENERAL STUDIES COURSES (4901)

4901.101 PREPARATION FOR COLLEGE WRITING (3) Review of grammar, sentence structure, and paragraph development. The course is a prerequisite to 1501-102 for students whose entering scores indicate they need additional preparation for college-level writing. Prerequisite: Department placement. "Course does not carry credit toward graduation (graded under S/U procedure)."

4901.103 INTRODUCTION TO HUMAN RELATIONS (3) An interdisciplinary course designed to present human relations skills emphasizing self awareness, interpersonal skills, and communication and listening skills. Experiential learning, role-playing situations, and real-life activities will be utilized.

4901.110 EXPLORATIONS IN COMMUNICATION SKILLS (4) A course designed to enhance the student's ability in the four communications skills — reading, writing, listening, and speaking; to enable the student to understand the interdependency of these skills and to recognize them as the foundation for success in other disciplines. Course does not carry credit toward graduation (graded under S/U procedure).

4901.113 ENGLISH AS A SECOND LANGUAGE: GRAMMAR REVIEW (5) A comprehensive review of the fundamentals of English grammar. Course does not carry credit toward graduation (graded under S/U procedure). Prerequisite: Students must be non-native speakers of

English. Admission by examination and permission of ESL committee.

4901.114 **ENGLISH AS A SECOND LANGUAGE: INTERMEDIATE (3)** Advanced grammar review with emphasis on sentence and short-paragraph construction. Prerequisite: 4901.113 or consent of ESL committee.

4901.115 **ENGLISH AS A SECOND LANGUAGE: ADVANCED (3)** Introduction to English style; emphasis on reading and writing skills, with attention to increased proficiency in conversation, as necessary. Prerequisite: 4901.114 or permission of ESL committee.

4901.121 **PERSONAL LIFE AND CAREER PLANNING (2)** To enable students to understand their role in the world of work, develop a sense of career directionality and maturity, explore concepts related to successful career choice, begin to take action toward achieving satisfactory life planning, in the context of a decision making format.

4901.196 **SELECTED TOPICS IN GENERAL STUDIES (1-3)** Study of a topic in a specialized area to be selected by the instructor and student. Each topic must be approved by the Curriculum Committee. Prerequisites: Permission of the Associate Dean.

4901.198 **PHILOSOPHY OF GENERAL STUDIES (3)** An introduction to the concepts of a liberal education through readings, lectures, and discussions. Prerequisites: Must be taken simultaneously with 4901.199.

4901.199 **PRACTICUM IN GENERAL STUDIES (3)** Life experiences in the major areas of a liberal education—museums, theatre, historical landmarks, concerts, etc. Prerequisites: Must be taken simultaneously with 4901.198.

4901.203 **HUMAN RELATIONS (3)** Concepts of human relationships in a metropolitan environment, with exam-

ination of different life styles and values of the various groups found in our American society. Prerequisite: 4901.103 or consent of instructor.

4901.211 **EDITORIAL CARTOONING AND ITS PRACTITIONERS: JOURNALISM'S POLITICAL GADFLIES (2)** This series of lectures by the former editorial cartoonist for the Baltimore News-American will look at the most lively aspect of the daily newspaper's editorial page. Included are a review of the history of editorial cartooning, an analysis of the works of some of today's most prominent cartoonists and insights into how editorial cartoons are created. No drawing or artistic talent will be required.

4901.221 **GAMBLING: HISTORY, THEORY AND PRACTICE (3)** An academic interdisciplinary approach to an age-old activity. Emphasis on the history, psychology, sociology and mathematics of the practice of gambling, including its beneficial and detrimental aspects. Prerequisite: Sophomore standing.

4901.501 **INTRODUCTORY SEMINAR IN GENERAL STUDIES (3)** An orientation to graduate study and the use of scholarly resources and research techniques to prepare the student to develop and accomplish his/her thematic plan of study. Cross disciplinary approaches will be stressed.

4901.502 **CULMINATING SEMINAR IN GENERAL STUDIES (3)** For graduate students in the Master of Arts in General Studies degree program. A seminar course which seeks primarily to integrate effectively the knowledge and skills developed by the student through the program of study. Each student will undertake an individualized research project involving an analysis of the rationale for and content of the particular program theme. Prerequisites: Open only to student in the Master of Arts in General Studies degree program. Must be taken in last semester of degree work.



Biological Sciences

Professors: ERICKSON, KUNDIG, MUMA, ODELL, WINDLER, SHOEMAKER

Associate Professors: ANDERSON, DAIHL, HILTON (Chairperson), MORSINK, SCARBROUGH, CREIGHTON

Assistant Professors: AKINYEMI, BUCHANAN, EWIG, FORESTER, HAMLETT, HENRIKSON, HULL, JOHNSON, LAINHART, LAUTERBACH, LEWIS, MECHLING, SCHUETZ, SMOES

Instructor: ROBINSON

Students interested in biologically oriented careers in teaching, fundamental and industrial research, medicine, dentistry, pharmacy, veterinary science, oceanography, conservation and allied fields should major in this department. Staff members will aid each student in designing a program to meet his special needs.

Departmental Office

Building — SM
Room — 357
Phone — 321-3124

Biology Major

The following are the required courses for the Biology Department and the total number of credits needed by a student to fulfill the Biology Major Requirements. Students are reminded that they must also meet the General Education Requirements.

Bachelors Degree

Major — Total 56

0401.101	Contemporary General Biology	(4) —
0401.105	General Botany	(4) —
0401.109	Functional Anatomy of Vertebrates	(4) —
0401.331	Field and Systematic Botany	(4) —
0401.351	Field and Systematic Vertebrate Zoology	(4) —
0401.401	Genetics	(4) —
0401.	Electives 8 credit hours	(8) —

Biology 0401.301, 0401.303 and 0401.387 may not be included in the basic 32 hours required for the major without permission of the department chairman. Biology majors may substitute two semesters of Human Anatomy and Physiology (0401.213, 0401.214) for Functional Anatomy of Vertebrates (0401.109) with the following stipulations: both 0401.213 and 0401.214 must be taken to receive credit for either semester and only four credits of the total eight may be applied to the biology major.

1701.115	Mathematics	(3) —
1905.101	General Chemistry I	(4) —
1905.102	General Chemistry II	(4) —
1905.330	Essentials of Organic Chemistry (1905.331 and 1905.332 may be used to substitute for 1905.330)	(5) —
1902.211	General Physics I	(4) —
1902.212	General Physics II	(4) —

Students are urged to take General Chemistry during their freshman year, Organic Chemistry in their sophomore year, and Physics as soon as possible.

Honors Program: To graduate with honors in biology a student must complete Biology 0401.486 and 0401.498-0401.499 to be taken in consecutive semesters of the senior year. The research thesis must be presented in an oral defense before the Honors Research Committee. An oral

presentation open to the public is also required. In addition, a minimum of three credit hours must be selected from 0401.491 and/or 0401.481 in the junior year. For eligibility and general information consult the College Honors Program description.

Medical Technology

This program is listed under Health Science.

Natural Science Major

This program is designed to give a broader view of the sciences than is obtained in a traditional undergraduate major in a single science. This is done at the sacrifice of depth and students should therefore be aware that this major may not prepare them for graduate work in a single science.

Prospective secondary or middle school teachers of general science should consider this major. These students should plan their programs to meet the certification requirements of the area in which they plan to teach.

Students who intend to be natural science majors should see D. Greene early in their education at this college.

Natural Science Major (54 credits)

Required courses (30 credits):

0401.101	Contemporary General Biology	(4) —
1905.101-102	General Chemistry I, II	(4, 4) —
1902.211-212	General Physics I, II	(4, 4) —
1901.121	Physical Geology	(4) —
1901.161	General Astronomy I	(3) —
1701.115	Mathematics I	(3) —

One from each of the following groups (9-12 credits):

0401.105 or 0401.109	General Botany, or Functional Anatomy of Vertebrates	(4) —
1905.210 or 1905.211	Principles and Methods of Chemical Analysis, or Quantitative Analytical Chemistry, or	(4) —
1905.330	Essentials of Organic Chemistry	(5) —
0401.295 or 0401.491	Course Research, or Independent Research in Biology, or	(1) —
1901.401	Advanced Laboratory in Physical Science	(2-3) —
		(2) —

Electives (12-15 credits):

One field course is required.

Other electives from the biological and physical sciences (upper division courses recommended).

Graduate Program

The course of study leading to the Master of Science in Biology is designed to provide greater knowledge and understanding of biology and to help the student develop a proficiency in independent thought, inquiry and research. The student may pursue either the Thesis Program (30 credits and a thesis) or the Non-Thesis Program (36 credits). Detailed information regarding both programs is given in the Graduate Studies Bulletin.

BIOLOGY COURSES (0401)

NOTE: 0401.101 is a prerequisite for all other biology courses. For details on exemption from this required course, see the Academic Regulations section of this bulletin.

Lower Division — Undergraduate

- 0401.101 **CONTEMPORARY GENERAL BIOLOGY (4)**
The basic biological principles common to plants and animals. Topics include cell structure and process (both physical and biochemical), mitosis, gametogenesis, aspects of embryology, genetics, evolution and ecology. Average of two laboratory hours per week. Each semester.
- 0401.105 **GENERAL BOTANY (4)** Morphology, anatomy, and physiology explored through the study of selected plant types. Average of two laboratory hours per week. Each semester.
- 0401.107-108 **FUNCTIONAL HUMAN ANATOMY I, II (4, 4)** A basic anatomical and physiological approach to all systems of the human body with an emphasis on normal and discussions of clinical abnormalities. Designed to be taken concurrently with clinical hospital experience. Three hours lecture, two hours laboratory per week. Both semesters must be completed to receive credit for either semester. Open to affiliated nursing school students only. Prerequisite: Acceptance to affiliated nursing program. May not be applied toward the Biology Major.
- 0401.109 **FUNCTIONAL ANATOMY OF VERTEBRATES (4)** Organ systems of selected vertebrate types with emphasis on basic physiological processes. Average of two hours per week in laboratory work. Students who have taken 0401.213-214 Human Anatomy and Physiology may not take this course. Each semester.
- 0401.121 **PRINCIPLES OF MICROBIOLOGY (3 or 4)**
General principles of microbiology. Relationship of microorganisms to humans. Basic laboratory techniques. Equal time is devoted to lecture and laboratory. This course is intended for affiliated nursing school students only. May not be applied toward the Biology Major. Summer each year.
- 0401.195 **COURSE RESEARCH (1)** Research related to a specific course successfully completed by the student. By invitation or with the consent of the instructor. Each semester. May not be applied toward the Biology Major.
- 0401.213 **HUMAN ANATOMY AND PHYSIOLOGY I (4)** Cell biology, histology, skeletal, muscular, and nervous systems. Average of three laboratory hours per week. To receive credit, 0401.214 must also be completed. Students who have completed 0401.109 may not take this course. Fall, each year.
- 0401.214 **HUMAN ANATOMY AND PHYSIOLOGY II (4)** Cardiovascular, respiratory, digestive, excretory, endocrine and reproductive systems. Average of three laboratory hours per week. Students who have completed 0401.109 may not take this course. Prerequisite: 0401.213. Spring, each year.
- 0401.221 **INTRODUCTION TO ANIMAL PARASITOLOGY (4)** A survey of the major groups of animal parasites and their vectors. Emphasis will be placed on the more important human parasites. Prerequisite: 0401.109 or consent of instructor. Spring, even years.
- 0401.235 **ECONOMIC BOTANY (3)** A study of the plants and plant products which provide man with various luxuries and necessities. Emphasis will be on higher plants commercially important in North America. Prerequisite: 0401.105 or consent of instructor. Fall, odd years.
- 0401.295 **COURSE RESEARCH (1)** Research related to a specific course successfully completed by the student. By invitation or with the consent of the instructor. Each semester. May not be applied toward the Biology Major.

Upper Division — Undergraduate and Graduate

- 0401.301 **FIELD NATURAL SCIENCE (4)** A study of
- 60 TOWSON STATE UNIVERSITY

various environments to determine their physical and biological components and to understand the relationship of these forms to one another and to man. Emphasis is on field observation. An average of three Laboratory hours per week. Once each year. May not be used toward M.S. degree in Biology.

- 0401.303 **LIFE SCIENCES FOR THE ELEMENTARY TEACHER (3)** The study of living organisms in the environment, emphasizing modes of scientific inquiry and the utilization of living organisms in the classroom. Prerequisite: 0401.101. Each semester. May not be used toward M.S. degree in Biology.
- 0401.305 **ELECTRON MICROSCOPY (4)** Theory, preparation, and application of the electron microscope, including light microscopy. Average of three laboratory hours per week. Prerequisite: 12 hours of biology, 1902.212 or equivalent, and consent of instructor. Fall, even years.
- 0401.307 **INTRODUCTION TO PALEONTOLOGY (4)**
Examination of major forms of life with the emphasis on appearances, diversification, and extinctions during the different geologic periods. Prerequisite: Minimum 10 credits in Biology. Spring, odd years.
- 0401.310 **ENVIRONMENTAL CONSERVATION (4)**
Basic conservation practices and problems. Soil, water, forest, and wildlife resources with emphasis on interrelationships. Specialists in various phases of local, state, and federal conservation work conduct or assist in numerous field trips. Average of three laboratory hours per week. Once each year.
- 0401.315 **MEDICAL MICROBIOLOGY (4)** General microbiological techniques. Pathogenesis of bacterial, viral, rickettsial and fungal diseases with emphasis on medically important bacteria. Recommended for students pursuing a career in the medical sciences. Prerequisites: CHEM 1905.101, 1905.102. The latter may be taken concurrently. Spring, each year. Either this course or 0401.318, but not both courses, may count toward M.S. degree in Biology.
- 0401.318 **MICROBIOLOGY (4)** A course investigating the basic principles of such groups of organisms as bacteria, protozoa, and lower plant forms, with emphasis on bacteria. Average of three laboratory hours per week. Prerequisites: CHEM 1905.101, 1905.102. The latter may be taken concurrently. Fall, each year. Either this course, or 0401.315, but not both courses, may count toward M.S. degree in Biology.
- 0401.322 **MICROTECHNIQUE (4)** Techniques used in preparation of plant and animal tissues for histological examination. Average of three laboratory hours per week. Prerequisites: CHEM 1905.101, 1905.102. Spring, even years.
- 0401.331 **FIELD AND SYSTEMATIC BOTANY (4)**
Plant kingdom centered around taxonomy and ecology. Methods of collection, identification, and preservation will be developed in the field and laboratory. Average of three laboratory hours per week. Prerequisite: 0401.105 or consent of instructor. Each semester.
- 0401.341 **PHYCOLOGY (4)** The systematics, structure, ecology, physiology, and life histories of algae. Laboratory will include methods of collection, culture, and experimental study of selected species. Prerequisite: 0401.105. Fall, even years.
- 0401.345 **MYCOLOGY (4)** An introductory study of the morphology, classification, life histories, and economic applications of the fungi. Average of three laboratory hours per week. Prerequisite: 0401.105. Fall, even years.
- 0401.351 **FIELD AND SYSTEMATIC VERTEBRATE ZOOLOGY (4)** Evolution, distribution, and definitive features of each class are studied comparatively. Extensive

field and laboratory work deals with morphologic, taxonomic, ecological, and behavioral features of selected vertebrate groups and species. Average of three laboratory hours per week. Each semester.

0401.353 **INVERTEBRATE ZOOLOGY (4)** Aquatic and terrestrial species of phyla from the Protozoa through the Echinodermata with special emphasis on local forms. Economic, ecological, and taxonomic considerations. Average of three laboratory hours per week. Fall, each year.

0401.360 **HISTOLOGY (3)** Tissues of the vertebrate body. Average of two laboratory hours per week. Prerequisite: 0401.109. Spring, odd years.

0401.367 **GENERAL ENDOCRINOLOGY (3)** Endocrine mechanisms regulating homeostasis and functional integrity of animals, with emphasis on vertebrates. Prerequisites: CHEM 1905.101, 1905.102, 0401.109 or equivalent. Fall, even years.

0401.368 **EXPERIMENTAL ENDOCRINOLOGY (2)** An introduction to techniques and procedures commonly employed in endocrine research. Average of 1 lecture hour and 3 laboratory hours per week. Prerequisites: 0401.367 (may be taken concurrently). Fall, even years.

0401.371 **ANIMAL BEHAVIOR (4)** Ethological approach to the comparative study of animal behavior. Major emphases are on the adaptive function of behavior and classification of behavior mechanisms. Average of three laboratory hours per week. Fall, odd years.

0401.381 **BIOLOGICAL LITERATURE (2)** Familiarization with the literature of biology through the preparation of papers requiring a knowledge of techniques for exploring the literature. Two one-hour lectures per week. Prerequisite: at least 6 hours of biology. Fall, each year. May not be used toward M.S. degree in Biology.

0401.383 **HISTORY OF BIOLOGICAL CONCEPTS (3)** Historical development of biological concepts from the Renaissance to the present through selected readings. Special emphasis will be placed on the Enlightened Period as signalling the start of a Biological "Scientific Revolution." Fall, odd years. May not be used toward M.S. degree in Biology.

0401.385 **SELECTED GENERAL PRINCIPLES IN BIOLOGY (3)** Current directions of biological investigations will be discussed together with a treatment of recent contributions to biological areas and principles. Sufficient background will be given to provide coherence and understanding. Three one-hour lectures. Prerequisite: consent of instructor. Evening and summer programs. Not for graduate credit, but for recertification.

0401.387 **BIOLOGY IN SOCIETY (3)** Considerations given to the biological aspects of the environment; its concepts and problems and their effects upon the population. Once each year. May not be used toward M.S. degree in Biology.

0401.395 **COURSE RESEARCH (1)** Research related to a specific course successfully completed by the student. By invitation or with the consent of the instructor. Each semester. May not be applied toward the Biology Major or the M.S. degree in Biology.

0401.401 **GENETICS (4)** Heredity and variation, and their application to evolution and development. Gene action at the morphological, physiological and biochemical levels. Laboratory work entails use of *Drosophila*, corn, and *Neurospora* in the application of genetic principles. Average of three laboratory hours per week. Prerequisites: CHEM 1905.101, 1905.102 and MATH 1701.115 or consent of instructor. Each semester. May not be used toward M.S. degree in Biology.

0401.402 **GENERAL ECOLOGY (4)** Basic principles of ecology. Interrelationships between animals and plants and their natural environments, emphasizing the specific biomes available for study in Maryland. Individual projects will be required. An average of three laboratory hours per week. Spring, odd years.

0401.403 **ADVANCED GENETICS (3)** Emphasis on the molecular basis of gene action. Discussion of current work and methods related to the problem of gene structure, function, and mutation including the translation and regulation of genetic information. Prerequisite: 0401.401 or its equivalent or consent of instructor. Spring, odd years.

0401.404 **ECOLOGICAL TECHNIQUES (3)** A series of lectures and readings on standard investigative techniques employed by ecologists in the various specialty fields. An individual investigation, laboratory or field, using appropriate equipment, is required. Prerequisite: 0401.402 or its course equivalent. Fall, even years.

0401.406 **LIMNOLOGY (4)** A study of inland waters. The physical, chemical, and biological factors that affect fresh-water organisms, and some of the standard methods used to analyze these factors. Average of two laboratory hours per week. Prerequisites: CHEM 1905.101-102, PHYS 1902.211-212, or consent of instructor. 0401.402 recommended. Fall, odd years.

0401.408 **CELL BIOLOGY (4)** A study of the molecular and morphological organization of the cell in relationship to functions of the cell's organelles. An average of three laboratory hours per week. Prerequisites: 0401.109, and CHEM 1905.330 or 1905.331. Spring, even years.

0401.411 **WILDLIFE BIOLOGY (4)** Important wildlife species with emphasis on aspects of research and management. Specific techniques and problems are studied in the field. Average of three hours per week in laboratory and field work. Prerequisite: Permission of instructor. Fall, even years.

0401.421 **IMMUNOLOGY (3)** Fundamental principles of immunology with emphasis on the nature of antibodies and antigens, blood groups, antibody — antigen reactions, hypersensitivity, autoimmunization, tumor immunology, artificial grafting and the preparation of vaccines. Prerequisites: 0401.315 or 0401.318 or consent of instructor. Fall, odd years.

0401.429 **BIOANALYSIS (3)** Microscopic and biochemical methods used in determining major components and important contaminants of feeds, spices, stabilizers, adhesives, bakery materials, fats and oils, meat products, crystal mixtures, dairy products, etc. An average of two hours per week in laboratory and field work. Prerequisite: 0401.105, CHEM 1905.101, 1905.102, or permission of instructor. Evening and summer programs.

0401.431 **HORTICULTURE (4)** Basic principles and techniques of plant culture and their application to developing desirable plantings on home grounds or in public places with examples of appropriate types of plants for specific situations. Average of three laboratory hours per week. Prerequisite: 0401.105. Spring, even years. May be taken for Master's Degree credit only with the approval of the appropriate graduate coordinator.

0401.432 **VASCULAR PLANT TAXONOMY (4)** A study of the history and principles of vascular plant systematics with laboratory time devoted to collection and identification of plants in the local flora. An average of three laboratory hours per week. Prerequisites: 0401.105, 0401.331 or consent of instructor. Fall, even years.

0401.433 **PLANT SPECIATION (3)** A study of such speciation phenomena as race isolation, hybridity, polyploidy, apomixis, and self-compatibility as they influence

the evolution of new populations. Prerequisite: 0401.331. Spring, even years.

0401.436 PLANT PHYSIOLOGY (4) Life functions of plants as related to structure at all levels: cells, organs, and the complete organism. Consideration of the interaction of environmental and genetic factors on plant metabolism. Average of three laboratory hours per week. Prerequisites: 0401.105, CHEM 1905.101, 1905.102, CHEM 1905.331 recommended. Spring, odd years.

0401.439 PLANT ANATOMY (4) Origin and development of organs and tissue systems in vascular plants. Average of three laboratory hours per week. Prerequisite: 0401.105. Spring, even years.

0401.441 PLANT PATHOLOGY (4) A study of plant diseases, their symptoms, causal agents, etiology, epidemiology, prevention, and control. Average of three laboratory hours per week. Prerequisite: 0401.105. Fall, odd years.

0401.456 ORNITHOLOGY (4) The systematics, distribution, physiology, behavior and ecology of birds. Emphasis is on bird identification and techniques of studying birds in the field. Several early morning field trips are required. Average of three laboratory hours per week. Spring, even years.

0401.458 MAMMALOLOGY (4) The evolution, comparative morphology, systematics, and distribution of mammals. Representative life histories are considered. Average of three laboratory hours per week. Prerequisite: permission of instructor. Spring, odd years.

0401.461 ENTOMOLOGY (4) Laboratory and field course in insects. Identification and recognition of the more common families and orders, and a study of their structure, behavior, ecology, economic importance, and control. Average of three laboratory hours per week. Fall, even years.

0401.463 ANIMAL EMBRYOLOGY (4) Developmental anatomy and the underlying principles involved in development. This last area will be approached from an experimental base. Average of three laboratory hours per week. Prerequisite: 0401.109. Fall, odd years.

0401.465 ANIMAL PHYSIOLOGY (4) Functioning of animal organ systems, with emphasis on the vertebrate body. Average of three laboratory hours per week. Prerequisites: 0401.109, CHEM 1905.101, 1905.102. Fall, odd years.

0401.467 HERPETOLOGY (4) A systematic survey of the modern reptiles and amphibians. Special emphasis is placed on the evolution of morphological and behavioral traits which have enabled the reptiles and amphibians to successfully exploit their individual habitats. Laboratory periods include systematic classification, student seminars and field work. Average of three laboratory hours per week. Prerequisite: 0401.351 or consent of the instructor. Spring, even years.

0401.481 DIRECTED READING IN BIOLOGY (1-3) Independent reading in an area selected by the student in consultation with the instructor. Prerequisite: a minimum of 10 hours in biology. Only one credit may be applied toward the Biology Major. May not be applied toward the M.S. degree in Biology. Each Semester.

0401.486 SEMINAR: SPECIAL TOPICS IN BIOLOGY (1-2) Study and discussion of topics in a specialized area to be selected by instructor. Areas will vary from semester to semester. Prerequisites: a minimum of 10 semester hours in biology or consent of instructor. (Consent of instructor is not considered necessary if student has had 10 semester hours in biology.) Spring, each year. May not be used toward M.S. degree in Biology.

0401.491 INDEPENDENT RESEARCH IN BIOLOGY (2-3) Independent investigation of a problem under the supervision of a staff member culminating in a written presentation. Prerequisite: a minimum of 15 semester hours in biology and consent of instructor. Each semester. May not be used toward M.S. degree in Biology.

0401.494 TRAVEL STUDY (1-3) Detailed investigation of field oriented problems in biology away from the Towson State campus. Locations and topics to be selected by the department and instructors sponsoring the program. Prerequisite: consent of instructor. Each year. A maximum of three credits may be applied toward the Biology Major.

0401.495 COURSE RESEARCH (1) Research related to a specific course successfully completed by the student. By invitation or with the consent of the instructor. Each semester. May not be applied toward the Biology Major or the M.S. degree in Biology.

0401.498 HONORS RESEARCH IN BIOLOGY (2) Individual research of an extensive nature under the direction of a staff member, culminating in an honors thesis. Credit for 0401.498 not awarded until 0401.499 is successfully completed. Prerequisites: open only to advanced honors candidates and by consent of instructor. Each semester. May not be used toward M.S. degree in Biology.

0401.499 SENIOR THESIS IN BIOLOGY (2) Writing of an honors thesis based on individual research done under the direction of a staff member. Prerequisites: open only to advanced honors candidates and by consent of instructor. Each semester. May not be used toward M.S. degree in Biology.

Graduate Division

0401.501 CURRENT TOPICS IN BIOLOGY (3) Discussion of current topics in a specific area of biology. The area will vary each time the course is offered. A maximum of three credits allowable for M.S. degree in Biology. Prerequisites: A suitable background in the area emphasized. Evening and summer programs.

0401.505 PROBLEMS IN BIOLOGY (1-3) Laboratory or literature research on a particular problem of interest to the student that does not pertain to his/her thesis. Regular conferences with the instructor are required. A preliminary paper is submitted for discussion, suggestions and corrections. The final paper should incorporate the necessary changes. Credits to be arranged by consultation with the instructor. A maximum of three credits allowable for M.S. degree in Biology. Prerequisite: consent of instructor. Evening and summer programs.

0401.507 PHYSIOLOGICAL ANIMAL ECOLOGY (4) A study of the physiological responses of animals to varying ecological conditions. Prerequisites: 0401.402, 0401.465. Fall, even years.

0401.509 AQUATIC BIOLOGY (4) A study of freshwater and brackish water plants and animals of the local area with a field emphasis. Several representative habitats are considered comparatively, using various methods of collecting and identifying species of the fauna and flora. Prerequisites: 0401.331, 0401.351, 0401.353 or consent of instructor. Spring, even years.

0401.532 PLANT BIOSYSTEMATICS (4) A study of the techniques employed in the analysis of vascular plant life histories and species variation. Local plant populations and species are used in these studies. Prerequisites: 0401.331; 0401.432 is recommended.

0401.533 PLANT MORPHOGENESIS (4) The morphological growth and development of plants in response to natural and artificial stimuli at the cellular, tissue, and organ level. Prerequisite: 0401.439. Spring, even years.

0401.535 **PHYSIOLOGICAL PLANT ECOLOGY (4)**
Physiological interactions between plants and environments at the organismal level. Examination of environmental factors including light, water, and nutrients and biological factors including competition and phytotoxins as they affect the physiology and distribution of plants. Prerequisites: 0401.402, 0401.436 recommended, or consent of instructor. Spring, even years.

0401.553 **BIOLOGY OF TERRESTRIAL AND FRESH-WATER INVERTEBRATES (4)** An advanced study of invertebrates including classification, physiology and various ecological parameters influencing distribution of local fauna in freshwater and terrestrial habitats. Parasites and terrestrial insects are excluded. Prerequisites: 0401.353 or consent of instructor. Spring, odd years.

0401.581 **RECENT ADVANCES IN BIOLOGY (4)** A study of current factual and technological advances in the five following areas: Botany, Zoology, Ecology, Genetics and Evolution, Cellular and Molecular Biology. Completion of this course with a grade of B or better fulfills the departmental advancement to candidacy examination requirement. Prerequisites: nine graduate credits in biology. Fall, each year.

0401.601 **NON-THESIS LABORATORY RESEARCH (3)**
An individual laboratory research project is conducted with the guidance of a graduate faculty advisor after approval of the research proposal by the research committee. Credit granted after the paper has been successfully defended to the student's research committee. Prerequisites: Advancement to degree candidacy. Evening and Summer.

0401.603 **NON-THESIS LIBRARY RESEARCH (3)** A professional paper is prepared with the guidance of a graduate faculty advisor after approval of the topic by a research committee. The paper is based upon an extensive literature survey. The student can expect to make several revisions before an acceptable paper is achieved. Credit granted upon successful defense of the paper to the research committee. Prerequisite: Advancement to Degree Candidacy. Evening and Summer.

0401.697 **GRADUATE SEMINAR (1)** Student reports and discussion dealing with biological research. An outline of the seminar and a bibliography are required. A maximum of one credit allowable for M.S. degree in Biology. Evening and Summer programs.

0401.699 **THESIS (6)** An original investigation to be pursued under the direction of one or more faculty members. Credit granted only after thesis has been accepted by the student's thesis committee. Prerequisite: consent of instructor. Evening and Summer programs.

SCIENCE EDUCATION COURSES (SCIE)

The following courses are staffed by the Departments of Biological Sciences and Physics and are offered in cooperation with the Education Department. Descriptions of these courses are included under Education Department listings.

EDUC 0823.341 **EARLY CHILDHOOD EDUCATION PROFESSIONAL BLOCK I — SCIENCE**

EDUC 0803.398 **STUDENT TEACHING IN THE SECONDARY SCHOOL — BIOLOGY**

EDUC 0803.398 **STUDENT TEACHING IN THE SECONDARY SCHOOL — SCIENCE**

SCIE 0834.301 **FIELD COURSE IN SECONDARY TEACHING METHODS**

SCIE 0834.371 **TEACHING SCIENCE IN EARLY CHILDHOOD**

SCIE 0834.375 **TEACHING SCIENCE IN THE ELEMENTARY SCHOOL**

SCIE 0834.379 **TEACHING SCIENCE IN THE SECONDARY SCHOOL**

SCIE 0834.488 (SUMMERS) **AEROSPACE EDUCATION WORKSHOP**

SCIE 0834.585 **SEMINAR IN ELEMENTARY SCHOOL SCIENCE**

BIOL 0401.303 **LIFE SCIENCE FOR THE ELEMENTARY TEACHER**

Business Administration

Professor: HOLT

Associate Professor: BROWN (Chairperson), CASTALDI, SHANE, MALTENFORT

Assistant Professor: CAMPBELL (Vice Chairperson), SEGANISH (Business Law Coordinator), FARRELL, BATORY, HAIGHT, QUINTANA, STRAUSS, VENNOS

Instructors: BUCHOFF (Program Coordinator for Accounting), HANNON, KAHN, MACCHIETTE, PERRIER

The Business Administration program seeks to develop personal and professional skills related to business and management. It provides training for careers in business or government as well as preparation for graduate study in business or management. The program operates in a Liberal Arts framework and emphasizes the oral and written communication skills needed for a career in corporations and other large organizations such as the Federal and State Governments, school systems, and hospitals.

The Bachelor of Arts Degree may be earned by adding a foreign language to the major college requirements. The language requirement can be met by completing the intermediate course of a modern foreign language or its equivalent.

The following are the required courses for this academic department and the total number of credits needed by a student to fulfill this major. Students are reminded that they must also meet the General Education Requirements.

Departmental Office

Building — ST

Room — 208

Phone — 321-2148

BACHELORS DEGREE... BUSINESS ADMINISTRATION

Major Requirements — total 45-51

I. Business Administration Core Courses (30 credits)

2204.101	Economic Principles and Problems I	(3) _____
2204.102	Economic Principles and Problems II	(3) _____
0506.201	Accounting Principles I	(3) _____
0506.202	Accounting Principles II	(3) _____
0506.325	Business Law I	(3) _____
0506.331	Financial Management	(3) _____
0506.341	Marketing Management	(3) _____

One of the following:

1701.231	Basic Statistics	(3) _____
2204.301	Fundamental Statistics for Economics	(3) _____

One of the following:

0701.235	Fundamentals of Computing	(3) _____
0701.212	Cobol Programming (Prereq. Acct'g I, Intro Data Processing)	(3) _____

One of the following:

1501.333	Technical Writing (prerequisite, 2 English courses)	(3) _____
1501.331	Advanced Composition (prerequisite, 2 English courses)	(3) _____
0605.355	Newsriting (special Mass Permit only)	(3) _____
0605.356	Feature Writing (special Mass Com Permit)	(3) _____

II. Area of Concentration (9-15 credits over and above BUAD core course requirement)

Each area of concentration is designed to provide depth and high levels of skill in specific functional areas. Each

business major must complete an area of concentration prior to graduation. The areas of concentration within the Business Administration major are:

Accounting — (15 hours required) Designed for students selecting careers in corporation accounting or planning to take the exam to be a Certified Public Accountant. Courses in this area are: Intermediate Accounting I and II; Cost Accounting; Tax Accounting I and II; Advanced Accounting I and II and Auditing.

Finance — (9 hours required) Designed for students seeking careers in banking or corporate finance. Courses in this area are: Principles of Investments and Security Analysis; International Finance; Advanced Corporate Finance; Money and Banking; and Price Theory.

Marketing — (9 hours required) Designed for students planning a selling, advertising, distribution or marketing career. Courses in this area are: Transportation Management; Physical Distribution Management; Advertising Management; Marketing Research; and International Marketing.

Management — (12 hours required) Designed for students interested primarily in administration or general business management. Courses in this area are: Management Theory (required), Advanced Business Policy Workshop (required), Seminar in Leadership, Quantitative Methods in Business, Fundamentals of Production Management, Analysis of Industrial organizations, Directed Readings, Independent Research and Business Practicum. In addition to other requirements, the concentration must include either (but not both) Quantitative Methods or Analysis of Industrial Organizations. Only one independent study course may be included in the concentration.

Personnel — (9 hours required) Designed for students selecting a personnel or management career. Courses in this area are: Personnel Management; Labor Economics; Industrial Relations; Grievances and Arbitration, and Public Administration.

International Business — (9 hours required) Designed for students interested in learning the nature of international business and management. Courses in this area are: Introduction to International Business; International Finance; International Marketing; and International Economics.

Accounting — (15 hours required)

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Finance — (9 hours required)

_____	() _____
_____	() _____
_____	() _____

Marketing — (9 hours required)

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_____	() _____
_____	() _____

Management — (12 hours required)

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_____	() _____
_____	() _____
_____	() _____

Personnel — (9 hours required)

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International Business — (9 hours required)

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III. Upper Division Electives (6 credits)

The student must complete six additional hours of Business Administration upper-division courses: (upper division courses carry 300 or 400 level course numbers.)

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Additional electives recommended to business majors are: MASS COMMUNICATIONS (Communication Process, Introduction to Advertising, Business and Professional Speech, Public Opinion and the Press, Publicity and Public Relations, Mass Media in Modern Society); ECONOMICS (Intermediate Price Theory, Government and Economic Life, Money and Banking, Macroeconomic Theory, Business Cycles and Forecasting); POLITICAL SCIENCE (Public Administration, State Government, Urban Government and Politics); MATHEMATICS (Math of Finance, Calculus); PSYCHOLOGY (Industrial Psychology, Group Dynamics, Applied Psychology); SOCIOLOGY (Organizations); HISTORY (Hist of Mgmt & Hist of American Business).

Transfer Credits

Credit towards the business major will be given for approved courses taken at other schools. Students planning to transfer from junior or community colleges are encouraged to take six hours of accounting as part of their first two years of college. Six hours of economics may also be taken. Students are encouraged to take finance and marketing after transferring to Towson State University. Transfer students must complete, with a "C" or better, at least 21 hours of upper level Business Administration credits with a pre-fix of 0506.300 or 0506.400 at Towson State University in order to qualify for the Business Major.

Students currently enrolled at Towson State University may be given credit for courses taken at other accredited four-year colleges. Approval must be gained in advance.

- Special Programs of Interest**
- (Consult your advisor. Advisor may be obtained by individual consultation with the faculty member of your choice.)
1. Business Internship Program (Open to all majors)
 2. Directed Independent Study Program
 3. "Credit for Prior Experience" Program
 4. "American Institute of Banking Credit by Experience" Program
 5. Business Clubs (American Marketing Association, American Accounting Association, American Society of Personnel Administrators)

American Institute of Banking Credit By Experience Program

For selected courses, Towson State University will accept a maximum of six courses taken in residency through the Baltimore Chapter of the American Institute of Banking. Each three-credit course will be accepted with examina-

tion as two credits in business administration. The courses count as lower-division electives. (Freshman and Sophomore Year). If a maximum of six courses is accepted, the student will receive 12 credits in business towards the 120 or 128 required for graduation. In addition to the 12 AIB credits, a student may transfer up to 64 credits from a Maryland Community College without loss of credit.

Criteria to be Applied	
The following criteria and evidence of attainment are required for the acceptance of courses:	
Student must complete AIB course with a grade of "B" or better.	A transcript signed by the AIB Chapter President.
The class must have met in a formal classroom setting for a semester.	Certification by Baltimore Chapter.
The course required the student to pass a minimum of two examinations	Certification by Baltimore Chapter.
The course was completed during a five-year period prior to the date of submission of the transfer request.	Certification of dates during which the course was offered by the Chapter.
The student must have been employed by a bank on a full-time basis during the period covered by the course.	Certification by Baltimore Chapter.
The student must have been employed in banking full-time during a period of 18 consecutive months during the past seven years.	Certification by Baltimore Chapter.

How to apply for credit

To apply for credit for AIB courses, the student takes the following actions: write a letter to the Chairperson, Department of Business Administration, Towson State University, Baltimore, Md. 21204. In the letter the student should: request credit for specific AIB courses; indicate that he or she has requested the AIB Chapter to certify criteria listed above (directly from Chapter to Towson); indicate that he or she has requested a certification of employment from the Personnel Department of Bank directly to Towson; enroll as a student at Towson State University.

- Courses which qualify**
- Once accepted, AIB courses are applied towards BUAD 0506.299, Practicum in Banking. The following American Institute of Banking courses currently qualify for credit:
- Credit Administration
 - Home Mortgage Lending
 - Installment Credit
 - Principles of Bank Operations
 - Savings and Time Deposit Banking.
 - Bank Letters and Reports
 - Bank Management
 - Bank Public Relations and Marketing
 - Analyzing Financial Statements
 - Trust Functions and Services

BUSINESS ADMINISTRATION COURSES (0506)

Lower Division — Undergraduate

0506.101 INTRODUCTION TO BUSINESS (3) This course is concerned with the problems of organization dy-

namics and behavior of people, within and outside the business, with which management must deal in attaining the objectives of the enterprise. Not for major credit.

0506.201-202 ACCOUNTING PRINCIPLES I, II (3, 3)
Fundamentals of accounting as applied to proprietorships, partnerships, and corporations. The recording process; construction, interpretation, and managements' use of financial statements.

0506.221 BASIC REAL ESTATE (3) This course covers the principles of real property, landlord-tenant relationship, contracts, agency and listings, transfer of title, title insurance and settlements, fundamentals of appraising, real estate finance, license law, rules and regulations, Code of Ethics, rights and community relations, and basic real estate mathematics. This course fulfills the Maryland Real Estate Commission's basic course requirement for the Real Estate Salesperson license and will assist in successfully completing the E.T.S. Salesperson Licensing Exam. (Not for major credit.)

0506.222 REAL ESTATE SALES AND SALES MANAGEMENT (3) Principles of Real Estate Sales, including discussions of positive self-image, setting short and long range goals, budgeting of time, prospecting and soliciting listings, handling objections, closing sales; theories of why people buy property; techniques of developing listings, gathering contacts and referrals, qualifying prospects, advertising property, and sales presentation. (Does not count for major credit.) Prerequisite: 0506.221.

0506.223 LIFE INSURANCE (3) Fundamental principles, contracts, cost to policy holders, premium computation, calculation, apportionment of surplus. Laws and regulations, estate planning and group insurance. (Not for major credit.)

0506.224 REAL ESTATE APPRAISAL AND DEVELOPMENT (3) This course covers the nature and purpose of appraisals; basic principles of real property value; the appraisal process; developing building cost estimates; theory and procedure of coordinated land use and development — both commercial and industrial; business-government relationships; urban renewal; zoning regulations; the role of the builder in real estate development; and condominiums. (Does not count for major credit.) Prerequisite: 0506.211.

0506.225 REAL ESTATE LAW AND INSTRUMENTS (1) This course is an intensive review of Real Estate Law and instruments and is a required supplement to course 0506.221 for those who desire to fulfill the Maryland Real Estate Commission's requirement for the Real Estate Salesperson's license. (Not for major credit.) Prerequisite: 0506.221 or the equivalent, or taken concurrently.

0506.299 (16.299) PRACTICUM IN BANKING (2) Students receive credit for a combination of work experience and courses taken through the Baltimore Chapter of the American Institute of Banking. Up to 12 credits may be earned in this practicum. Prerequisite: Consent of Chairperson.

Upper Division — Undergraduate

0506.301-302 INTERMEDIATE ACCOUNTING I, II (3, 3) Preparation and analysis of financial statements. Accounting theory. Valuation of working capital, non-current assets and liabilities, revenue and expenses. Prerequisite: 0506.202 and a score in excess of the 33rd percentile on the AICPA Level I Test. Special course permit required.

0506.303-304 COST ACCOUNTING I, II (3, 3) First semester will offer components of manufacturing cost under the job order and processing cost system. The second semester will cover preparation of budgets and budgetary controls, standard costs and their application in budgetaries control. Prerequisite: 0506.202.

0506.305-306 TAX ACCOUNTING I, II (3, 3) I—Federal income tax laws governing gross income, deductions, calculation of taxable income and income tax rates. Emphasis is placed on the effect of these laws on the income of individual tax payers. Prerequisite: 0506.202. II—Federal income tax laws dealing with partnerships, corporations, special tax areas and State of Maryland income tax laws. Prerequisite: 0506.305.

0506.307 SPECIAL TOPICS IN ACCOUNTING (3) Examines problems encountered in accounting for estates, trusts, municipalities, correction of errors, cash flow, and bankruptcy. Prerequisites: 0506.302.

0506.311-312 ADVANCED ACCOUNTING I, II (3, 3) I—The theory and practice of accounting for partnerships, installment sales, consignments, branch offices, and special accounting situations. Prerequisite: 0506.302. II—A continuation of theory and practice of accounting as it pertains to consolidations, estates and trusts, municipal institutional accounting. Prerequisite: 0506.311.

0506.313-314 AUDITING I, II (3, 3) I—Examination of generally accepted auditing standards, internal control, professional ethics, and an introduction to auditing procedures. Prerequisite: 0506.302. II—A continuation of Auditing I concentrating on auditing procedures, techniques, and standards of reporting. Prerequisite: 0506.313.

0506.325 BUSINESS LAW I (3) The function of the law with particular attention to contracts, agency, sales, commercial paper, personal property, and real property.

0506.326 BUSINESS LAW II (3) The law of partnerships, corporations, estates, bankruptcy, and of government relationships with business. Prerequisite: 0506.325.

0506.333 PRINCIPLES OF INVESTMENTS AND SECURITY ANALYSIS (3) The valuation of stocks and bonds: safety, income, and marketability. Analysis of financial statements. Portfolio management. Prerequisites: 0506.331, Junior/major standing.

0506.343 PHYSICAL DISTRIBUTION MANAGEMENT (3) A study of the elements involved in physical distribution management. Topics include transportation, packaging, materials handling, warehouse location. A systems approach is employed emphasizing the trade-offs between the various functions. Prerequisite: 0506.341.

0506.345 ADVERTISING MANAGEMENT (3) Analysis of promotional strategies for different classifications of products and services. Planning, preparing and scheduling advertisements. Media selection and determination of effectiveness. Advertising research. Prerequisite: 0506.341.

0506.355 INTRODUCTION TO INTERNATIONAL BUSINESS (3) International payments, importing and exporting, foreign investment, market entry, foreign taxation, international business law. Prerequisite: Junior/major standing or consent of instructor.

0506.365 PRINCIPLES OF PRODUCTION MANAGEMENT (3) This course is designed to introduce the student to the principles and techniques of production management and to provide an understanding of manufacturing system from the viewpoint of a production manager. The application of analytical and quantitative decision making techniques useful in production management will be emphasized. Prerequisites: 0506.202 and junior/major standing.

0506.371 PRINCIPLES OF TRANSPORTATION (3) Study of the economic and political factors affecting transportation and transportation systems. Development problems and government regulation. Study of freight and passenger carrier modes. Prerequisite: Junior/major standing or consent of instructor.

- 0506.491 **DIRECTED READINGS (1-3)** Readings in selected functional or conceptual areas of business or management. Prerequisite: Consent of instructor.
- 0506.495 **INDEPENDENT RESEARCH IN BUSINESS ADMINISTRATION (1-3)** Directed research on specific problems in a functional area of business or management. Prerequisite: Consent of instructor.
- 0506.497 **BUSINESS PRACTICUM (3)** Students are required to work in assigned projects in actual business environments. Priority will be given to seniors. Open to highly qualified juniors. May be re-elected for a maximum total of 9.0 credit hours. Prerequisites: Senior standing; open to highly qualified juniors.

Upper Division — Graduate and Undergraduate

- 0506.331 **FINANCIAL MANAGEMENT (3)** An analytical approach to the study of financial problems of business concerns. Instruments and institutions significant for financial management are studied. Prerequisites: 0506.202, Junior/major standing.
- 0506.332 **ADVANCED CORPORATE FINANCE (3)** This course covers selected topics in managerial finance including cost of capital, capital-structure management, techniques of financing, and tools of financial decision-making. Prerequisite: 0506.331.
- 0506.341 **MARKETING MANAGEMENT (3)** An analytical approach to the study of marketing problems of business firms. Attention is focused on the influence of the marketplace, the industry structure, and the role of government. Prerequisite: Junior/major standing or consent of instructor.
- 0506.361 **MANAGEMENT THEORY (3)** The nature, development and future prospects of management and organization theory. Management functions and processes are viewed in terms of organization, directing, communication, goals and responsibilities. Prerequisites: nine hours of upper level BUAD courses.
- 0506.363 **QUANTITATIVE METHODS FOR BUSINESS (3)** A course examining the processes, tools, and techniques for quantitative analysis for management. Covers basic theory for solving deterministic and probabilistic models with emphasis on applications to the business environment. Includes linear programming, optimization models, inventory, queueing, scheduling and game theory. Prerequisites: 1701.115 and 1701.231.
- 0506.381 **PERSONNEL MANAGEMENT (3)** Review of techniques and problems in obtaining and developing a competent work force. Recruiting, selecting, testing, and evaluating employees. Wage and salary administration. Prerequisites: Junior/major standing or consent of instructor.
- 0506.435 **INTERNATIONAL FINANCE (3)** The operating framework of international finance including balance of payments, foreign exchange, foreign money markets and financial management of the multi-international corporation. Prerequisites: 0506.331, 0506.355.
- 0506.441 **MARKETING RESEARCH (3)** The theory and application of marketing research as a tool facilitating the corporate decision making process from sales research,

market analysis through motivational analysis, advertising policy and product and package design. Course projects will provide an opportunity to develop proficiency in research design, sampling theory, data collection, interview techniques and statistical analysis. Prerequisites: 0506.341, and 1701.231.

- 0506.442 **CASES IN MARKETING MANAGEMENT (3)** As an adjunct to the marketing management concentration, this course emphasizes the development of decision making skills and the formulation of strategies and policy. Cases will deal with market segmentation, consumer behavior, pricing, product line strategy, and promotion. Prerequisites: 0506.341; 1701.231 or 2207.301.
- 0506.445 **INTERNATIONAL MARKETING (3)** The environment of international marketing including channels of distribution, advertising, and legal, economic and cultural factors. Problems and obstacles related to market surveys and development of policies. Regional studies. Prerequisites: 0506.341, 0506.355.
- 0506.451 **INDUSTRIAL RELATIONS (3)** Studies in contract negotiation and collective bargaining. Labor disputes, internal problems in unions, management problems, and legal constraints. Prerequisite: 0506.381.
- 0506.452 **GRIEVANCES AND ARBITRATION (3)** Case study analysis of the grievance and arbitration procedure or a means of conflict resolution in existing industrial relations systems. Discharge, discipline, working conditions, past practice, promotion, overtime, and other specific arbitrable issues will be discussed. Prerequisite: 0506.381.
- 0506.457 **PUBLIC SECTOR COLLECTIVE BARGAINING (3)** Theory and practice of collective bargaining at all levels, different levels of education and other public agencies. Examination of trends, analysis of problems and an understanding of the strategies of the parties will be assessed through research, discussion and experiential exercises. Prerequisite: 0506.381, 0506.451 or consent or instructor.
- 0506.461 **ANALYSIS OF INDUSTRIAL ORGANIZATIONS (3)** An investigation of the problems and techniques for increasing management efficiency in production and related organizations, including organization analysis, systems analysis and feasibility studies. The course concentrates on detailed case analysis and utilizes visiting lecturers from various local corporations in studying the production environment. Prerequisite: 0506.202, 0506.365, Junior/major standing or consent or instructor.
- 0506.463 **SEMINAR IN LEADERSHIP (3)** A seminar course designed to challenge the student's ability to form soundly developed business decisions. The objective is to develop leadership styles and strategies by relating the appropriate marketing, financial, and production information available to management. Prerequisite: nine hours upper level BUAD courses.
- 0506.481 **ADVANCED BUSINESS POLICY WORKSHOP (3)** A course requiring practical application of principles of management in an organizational framework. Class will integrate functional skills in the areas of finance, marketing, personnel, and management. Prerequisites: Senior standing or consent of instructor.

Chemistry

Professor: KASK

Associate Professors: BLANKENSHIP, MILIO, SWEETING,
TOPPING, WINGROVE (Chairperson), YARBROUGH

Assistant Professors: CARET, DEBYE, LARKIN, RAWN,
RODEWALD

Instructors: PRIBULA

Assistant Instructors: CAMPBELL, DEMETRIADES, EMMEL

CHEMISTRY MAJOR

This major is recommended for students who intend to do graduate work in chemistry, to teach in secondary schools, to work in industrial, government and hospital laboratories, technical libraries, etc. Students who plan chemically oriented careers such as fundamental and industrial research, medicine, dentistry, pharmacy, veterinary medicine, agriculture, and other allied fields, may also elect this major. Students electing this major should contact the Chemistry Department to be assigned an advisor to assist them in designing a program to meet their special needs (contact the Chemistry Department office). Students should see their advisors early in their time at Towson State University and upon occasion of any change in courses or schedule in their program.

In addition to the general requirements for a bachelor's degree the following chemistry and supporting courses are required for all chemistry majors: (The abbreviations following the titles are for the recommended year in which the course should be taken.)

Departmental Office

Building — SM

Room — 543

Phone — 321-3058

Requirements

Major — total credits 57

1701.273	Calculus I (FR)	(4)_____
1701.274	Calculus II (SO)	(4)_____
1902.221	General Physics I (FR) (or 1902.211 but this is not recommended and is not allowed for the ACS certified degree)	(4)_____
1902.222	General Physics II (SO) (or 1902.212 but this is not recommended and is not allowed for the ACS certified degree)	(4)_____
1905.101	General Chemistry I (FR)	(4)_____
1905.102	General Chemistry II (FR)	(4)_____
1905.211	Quantitative Analytical Chemistry (SO)	(5)_____
1905.331	Organic Chemistry I (SO)	(5)_____
1905.332	Organic Chemistry II (SO)	(5)_____
1905.342	Physical Chemistry — Structure & Kinetics (SO)	(3)_____
1905.341	Physical Chemistry — Thermodynamics (JR)	(3)_____
1905.343	Physical Chemistry Laboratory (JR)	(1)_____
1905.344	Physical Chemistry Laboratory (JR)	(1)_____
1905.422	Inorganic Chemistry (JR)	(4)_____
1905.411	Instrumental Methods of Analysis (SR)	(5)_____
1905.401	Seminar in Chemistry (SR)	(1)_____

For those who intend to go to graduate school in chemistry at least two post-physical chemistry courses in chemistry and two semesters of German or Russian are strongly recommended. Additional physics and mathematics courses are also recommended, especially Computer

Science 0701.337 and/or 1701.471. (See ACS Certification.)

Students in the secondary education program (planning to teach chemistry in accredited schools) have an additional certification requirement of Biology 0401.101. These students should be registered with the Secondary Education department, should have an advisor on their education program (in addition to their Chemistry Faculty Advisor) and should consult with him/her concerning current certification and program requirements.

AMERICAN CHEMICAL SOCIETY ACCREDITED DEGREE (ACS CERTIFICATION)

The Department offers an American Chemical Society (ACS) accredited degree. The ACS degree is widely recognized throughout industry, government and education as a standard of excellence. Students with a good scholastic record are therefore urged to take this degree program. To obtain an ACS accredited degree a student must complete all the requirements for a regular major in Chemistry and must complete the following additional program of study: Chemistry 1905.491 must be taken plus two electives selected from the following advanced Chemistry courses: 1905.412, 1905.431, 1905.432, 1905.441, 1905.452 or 1905.453. A student may substitute one and only one of the advanced courses in Chemistry (excluding 1905.491) by an advanced course in either Physics or Mathematics. A student selecting this substitution must obtain prior departmental approval.

In selecting this program, a student should plan his college career carefully as not all the advanced Chemistry courses are offered every semester. A tentative schedule of when these courses will be offered may be obtained from the Chemistry Department office. Advanced Chemistry electives are offered periodically, subject to adequate enrollment.

CHEMISTRY MINOR

Students whose major interest is in cell or molecular biology, physiology or physiological psychology, environmental studies, medical technology, natural science or molecular physics will find that a good chemistry background will provide insights into their major field. The Chemistry minor provides such a broad background and is adaptable to student interests.

Requirements

Minor — total credits 24 (minimum), 12 of which must be in upper division Chemistry courses.

1905.101	General Chemistry I	(4)_____
1905.102	General Chemistry II	(4)_____
1905.210	Principles and Methods of Chemical Analysis	(4)_____

or		or
1905.211	Quantitative Analytical Chemistry	(5)_____

One of the following sequences:

a)	1905.330	Essentials of Organic Chemistry and	(5)_____
	1905.350	Principles of Biochemistry	(5)_____
	or	or	
b)	1905.330	Essentials of Organic Chemistry and	(5)_____
	1905.351	Essentials of Biochemistry	(3)_____
	or	or	

- c) 1905.331 and 1905.332 Organic Chemistry I and II (5, 5)_____

and one or more upper division Chemistry courses to make at least 12 upper division credits.

NATURAL SCIENCE MAJOR

This program is designed to give a broader view of the sciences than is obtained in a traditional undergraduate major in a single science. This is done at the sacrifice of depth and students should, therefore, be aware that this major will not prepare them for graduate work in a single science.

Prospective secondary school teachers of general science should elect this major. Students should plan their programs to meet the certification requirements of the area in which they plan to teach.

Students with this major are encouraged to take elective courses in Chemistry. For details, see Physics Department.

DUAL DEGREE PROGRAM IN ENGINEERING

A student may obtain a bachelor's degree with a major in chemistry from Towson State University and a degree in engineering from the University of Maryland at College Park as part of a joint program. This program is described in "The University Curriculum" section of this catalog (p. 26) Further information may be obtained from the Chemistry Department office.

CHEMISTRY COURSES (1905)

The Chemistry Department has an extensive "Credit for Prior Experience" program; students may obtain further information from the Chemistry Department office.

Lower Division — Undergraduate

- 1905.100 CHEMISTRY FOR NON-SCIENTISTS (3) A course for the non-scientist to help him/her understand and evaluate current and future technological and scientific developments, especially those related to chemistry. Chemical principles will be discussed in the light of such topics as: nuclear power, environmental pollution and body chemistry. The approach will be non-mathematical. Three hours of lecture-discussion. Offered each semester.

- 1905.101-102 GENERAL CHEMISTRY I, II (4, 4) Atomic and molecular structures and their relation to properties of matter; solutions; types of reaction, energetics, kinetics, equilibria, and the related study of some important metallic and non-metallic elements. Laboratory work involves individual quantitative experiments and semimicro qualitative analysis. Three lecture hours and one three-hour laboratory period. Prerequisite: High school algebra. Offered each semester.

- 1905.105-106 CHEMISTRY FOR ALLIED HEALTH PROFESSIONS I, II (4, 4) Concepts of General Chemistry, Organic Chemistry and Biochemistry are studied. The laboratory will aid students in mastering basic laboratory techniques. These include methods of measurement, both direct and instrumental, reading and handling of data such that concepts of accuracy and precision are realized. May not be used as a prerequisite for other Chemistry courses. Three lecture hours and one three-hour laboratory. Offered each semester.

- 1905.210 PRINCIPLES AND METHODS OF CHEMICAL ANALYSIS (4) A one semester course in chemical analysis for non-chemistry majors emphasizing the theory and application of common gravimetric, volumetric, chromatographic, spectrophotometric, and electrometric techniques. Prerequisite: CHEM 1905.102. Two lecture, one recitation, and four laboratory hours. Offered each Spring.

- 1905.211 QUANTITATIVE ANALYTICAL CHEMISTRY (5) Principles and methods of treatment of data to chemical analysis followed by a development of the theory and techniques associated with common gravimetric, volumetric, and spectrophotometric methods of analysis. Three lecture hours and two three-hour laboratory periods. Prerequisite: CHEM 1905.102. Offered each Fall.

- 1905.241 PREPARATION FOR PHYSICAL CHEMISTRY (1) Practice in the strategy of solving physical and chemical type problems in preparation for use in physical chemistry. One lecture hour. Prerequisite: MATH 1701.274 (or concurrently). Offered each semester.

Upper Division — Undergraduate Only

- 1905.330 ESSENTIALS OF ORGANIC CHEMISTRY (5) A one semester course in organic chemistry for non-chemistry majors taught on a conceptual basis. Emphasis will be on principles, mechanisms, and modern techniques. Laboratory will include synthesis and identification of organic compounds. Three lecture hours, one recitation hour and one three-hour laboratory period. Prerequisite: CHEM 1905.102. Offered each semester.

- 1905.331-332 ORGANIC CHEMISTRY I, II (5, 5) Structure, reactions, preparation and properties of the compounds of carbon, as well as mechanisms of organic reactions. Laboratory techniques, synthesis of typical organic compounds and modern methods of organic qualitative analysis. Three lecture hours, one recitation hour, and one three-hour laboratory period. Prerequisite: CHEM 1905.102. Offered each semester.

Upper Division — Undergraduate and Graduate

- 1905.341 PHYSICAL CHEMISTRY — THERMODYNAMICS (3) Thermodynamics, phase relations, solution properties, chemical equilibrium and electrochemistry. Three lecture hours. Prerequisites: CHEM 1905.102, MATH 1701.274, and PHYS 1902.222 or 1902.212; CHEM 1905.241 is recommended. Offered each Fall.

- 1905.342 PHYSICAL CHEMISTRY — STRUCTURE AND KINETICS (3) Introduction to quantum chemistry; atomic and molecular structure, atomic and molecular spectroscopy, introduction to statistical thermodynamics, kinetic theory, and chemical kinetics. Three lecture hours. Prerequisites: CHEM 1905.102, MATH 1701.274, and PHYS 1902.222 or 1902.212; CHEM 1905.241 is recommended. Offered each Spring.

- 1905.343 PHYSICAL CHEMISTRY LABORATORY I (1) Five short laboratory projects in physical chemistry. One three-hour laboratory period. Prerequisites: CHEM 1905.211 and 1905.341 or 1905.342. Offered each semester.

- 1905.344 PHYSICAL CHEMISTRY LABORATORY II (1) Five short laboratory projects in physical chemistry. One three-hour laboratory period. Prerequisites: CHEM 1905.211 and 1905.341 or 1905.342. Offered each semester.

- 1905.350 PRINCIPLES OF BIOCHEMISTRY (5) Introduction to Biochemistry. Discussion of protein structure, enzyme kinetics and enzyme catalysis. Survey of intermediary metabolism of carbohydrates. Discussion of lipid structure, lipid metabolism and membranes. The laboratory will introduce modern methods of Biochemistry: electrophoresis, enzyme kinetics and enzyme isolation and purification. Three lecture hours and one four hour laboratory period. Not recommended for Chemistry majors. Prerequisite: CHEM 1905.330 or 1905.332. Offered each Fall.

- 1905.353 BIOCHEMISTRY (5) A detailed analysis of protein structure and function including enzyme kinetics, multiple equilibria, and regulation of enzyme action. Major

metabolic pathways for the synthesis and degradation of carbohydrates will be discussed in detail. Particular emphasis will be placed upon bioenergetics and the control mechanisms operating in cellular metabolism. Laboratory will be coordinated with lecture and will involve contemporary experiments. Three lecture hours and one four-hour laboratory period. Prerequisite: CHEM 1905.332 and 1905.211 or 1905.210. Offered each Spring if sufficient demand. Not open to students who have taken CHEM 1905.350 or 1905.351.

1905.361 **CHEMICAL AND BACTERIOLOGICAL STUDIES ON WATER POLLUTION (3)** Deals mainly with water pollution: causes, effects, and cures. Considers details of water and waste treatment. Emphasizes technical details of analysis of water. Concerns standards of water purity and variables involved. Demonstration of analytical methods to be given. Case studies and applications are viable approaches to this topic. Three lecture hours. Prerequisites: CHEM 1905.102 and BIOL 0401.101. Offered through Division of Continuing Studies (evening and summer) if sufficient demand.

1905.363 **CHEMISTRY OF DANGEROUS DRUGS (3)** A study of the chemistry, methods of detection and analysis of narcotics, depressants, stimulants and hallucinogens. Also, the influence of physiochemical properties upon the pharmacological effects of drug-receptor interactions. Historical, forensic, and socio-economic implications associated with drug abuse will also be reviewed. Three lecture hours. Prerequisite: CHEM 1905.330 and 1905.350 or CHEM 1905.331-332. Also CHEM 1905.210 or 1905.211 recommended. Offered through Division of Continuing Studies (evening and summer) if sufficient demand.

1905.365 **POLYMER CHEMISTRY (3)** Course will cover the following aspects of polymers: structure, physical properties, methods of preparation, rheology, mechanical properties, degradation and stabilization, application and fabrication, and related contemporary topics. Carbon chain and heterochain polymers will be discussed, and spectroscopic methods of analysis (IR, UV and NMR) will be presented. Three lecture hours. Prerequisites: CHEM 1905.101, 1905.102, 1905.331 and 1905.332. Offered through Division of Continuing Studies (evening and summer) if sufficient demand.

1905.367 **FORENSIC CHEMISTRY (3)** An introduction to chemical and physical analyses used by a modern crime laboratory in the evaluation of physical evidence encountered in criminal acts. Areas of concentration will include drug analysis, toxicology, forensic serology, explosives analysis, arson examination, firearms and tool marks and trace evidence. Emphasis will be placed on the value of such examinations as presented by the expert witness in a criminal trial. Three lecture hours. Prerequisites: CHEM 1905.101, 1905.102, 1905.210 or 1905.211, 1905.330 or 1905.332. Offered through Division of Continuing Studies (evening and summer) if sufficient demand.

1905.369 **ORGANOMETALLIC CHEMISTRY (3)** A survey of the chemistry of compounds containing carbon-metal bonds. Synthesis, reactions and structures of compounds such as metal alkyls, carbonyls, pi-complexes, and the uses of these compounds in synthesis will be considered. Three lecture hours. Prerequisites: CHEM 1905.331, 1905.332; CHEM 1905.422 recommended. Offered through Division of Continuing Studies (evening and summer) if sufficient demand.

1905.371 **SPECTROMETRIC METHODS IN CHEMISTRY (4)** This course deals with the theory and application of three major instruments used in chemistry today: nuclear magnetic resonance spectroscopy, infrared spectroscopy, and mass spectrometry. Emphasis will be on the practical use of the instruments in pure and applied chem-

ical investigations involving students in the actual operation of the instruments. Two lecture hours and four laboratory hours. Prerequisites: CHEM 1905.332 and consent of instructor. Offered through Division of Continuing Studies (evening and summer) if sufficient demand.

1905.383 **MODERN CHEMISTRY: PRINCIPLES AND APPLICATIONS I (3)** A survey of principles and modern applications of chemistry for secondary school teachers. Lecture: bonding, acids and bases, equilibria, energy, and redox chemistry. Laboratory: the design of experiments suitable for the secondary school curriculum. Two lecture hours and two hours of laboratory-discussion. Prerequisites: Completion of approximately 20 credits in chemistry and consent of instructor. Offered through Division of Continuing Studies (evening and summer) if sufficient demand.

1905.384 **MODERN CHEMISTRY: PRINCIPLES AND APPLICATIONS II (3)** A survey of principles and applications of chemistry for secondary school teachers. Lecture: organic, biochemistry, agricultural chemicals, special topics. Laboratory: the design of experiments for the secondary school curriculum. Two lecture hours and two hours of laboratory-discussion. Prerequisites: Completion of approximately 20 credits in chemistry and consent of instructor. Offered through Division of Continuing Studies (evening and summer) if sufficient demand.

1905.391 **SPECIAL PROBLEMS IN CHEMISTRY (1-3)** A laboratory or library problem in any particular area of chemistry to be selected by the student in consultation with the instructor. Students are required to submit a written report. May be repeated for credit as CHEM 1905.392, 1905.393, etc. Prerequisite: Written consent of instructor. Offered each semester.

1905.401 **SEMINAR IN CHEMISTRY (1)** The attendance at all seminars and presentation of two seminars to the Chemistry Department on topics selected by the chemistry faculty or selected by the student and approved by the faculty. One and one-half hour seminar period. Prerequisite: CHEM 1905.211, 1905.332; Co-requisite: CHEM 1905.341 or 1905.342. Offered each semester.

1905.411 **INSTRUMENTAL METHODS OF ANALYSIS (5)** Theory, instrumentation, and application of various electrochemical, chromatographic, spectroscopic and spectrophotometric techniques to chemical analysis. Three lecture hours and one five-hour laboratory period. Prerequisite: CHEM 1905.211 and 1905.341 or 1905.342. Offered each Fall.

1905.412 **ADVANCED ANALYTICAL CHEMISTRY (3)** A special topics course dealing with the theory and application of more recent and specialized techniques of chemical separation and analysis. Three lecture hours. Prerequisite: CHEM 1905.411. Offered in the Spring of even years if sufficient demand.

1905.422 **INORGANIC CHEMISTRY (4)** Nuclear and extranuclear structure, molecular orbital and ligand field theories, aqueous and non-aqueous reactions, coordination chemistry, inorganic synthesis, modern instrumentation, etc. Three lecture hours and one three-hour laboratory period. Prerequisite: CHEM 1905.342 or concurrently. Offered each Spring.

1905.431 **ADVANCED ORGANIC CHEMISTRY LABORATORY (3)** The design of organic synthesis, advanced laboratory techniques, and determination of structure by chemical and spectroscopic means will be taught by laboratory problems and discussion. One lecture hour and two three-hour laboratory periods. Prerequisite: CHEM 1905.332 and consent of instructor. Offered each Fall if sufficient demand.

1905.432 **ADVANCED ORGANIC CHEMISTRY (3)**
Advanced topics will include several of: molecular orbital theory, pericyclic reactions, photochemistry, and determination of reaction mechanisms by: kinetics, linear free energy relationships, acid-base properties, acid-base catalysis, detection of intermediates, stereochemistry, etc. Three lecture hours. Prerequisites: CHEM 1905.332 and 1905.342; CHEM 1905.341 is also recommended. Offered each Spring if sufficient demand.

1905.441 **ADVANCED PHYSICAL CHEMISTRY (3)**
Two topics in the area of Physical Chemistry to be covered in depth. Topics will be selected by the instructor after consultation with the students. Examples of possible topics are: formal wave mechanics, bonding, solid state, liquid state, surface chemistry, colloids, high polymers, rheology, ionic conductivity, electrochemical cells, scattering phenomena, statistical thermodynamics. Three lecture hours. Prerequisites: CHEM 1905.341 and 1905.342. Offered in the Fall of odd years if sufficient demand.

1905.452 **ADVANCED BIOCHEMISTRY (3)** The use of physical methods in the study of biochemical systems, biochemical thermodynamics; the structure of proteins including X-ray crystallography, macromolecular solution thermodynamics, enzyme kinetics, and spectroscopic probing of macromolecular structure will be discussed. Three lecture hours. Prerequisite: CHEM 1905.341, 1905.342 (can be taken concurrently), 1905.353. Offered in the Fall of odd years if sufficient demand.

1905.453 **ADVANCED BIOCHEMISTRY LABORATORY (2)** Basic laboratory techniques involving the synthesis, isolation, purification, identification, and further reactions of substances in biochemical systems. Two three-hour laboratory periods. Prerequisite: CHEM 1905.353.

1905.491 **INTRODUCTION TO RESEARCH IN CHEMISTRY (1-3)** An individual laboratory and/or library investigation in research interest of an instructor. May be repeated for credit as CHEM 1905.492, 1905.493, 1905.494, etc. At the completion of a project the student must write a formal research paper on the work done and the principles involved. The student's performance will be evaluated by the research director and selected members of the faculty. Prerequisite: Consent of Instructor. Offered each semester.

Minimester Courses

1905.001 **CHEMICAL LITERATURE (1)** Instruction in the use of the library and of the literature of chemistry. Library problems related to information retrieval will be assigned. Prerequisites: Consent of instructor; junior, senior standing in Chemistry.

1905.002 **CHEMISTRY OF DANGEROUS DRUGS (2)**
A survey of the chemistry, methods of detection, and analysis of narcotics, depressants and stimulants. Historical background, forensic and socio-economic implications associated with drug abuse will also be reviewed. Laboratory experiments will utilize GLC, TLC, UV-Visible and Fluorometric techniques. Prerequisites: Consent of instructor.

1905.003 **APPLIED INSTRUMENTAL TECHNIQUES: NUCLEAR MAGNETIC RESONANCE (NMR) SPECTROSCOPY (1)** Deals with practical use and application of instrument. Theory will be discussed briefly, but emphasis will be on practical use of instrument in pure and applied chemical investigations. Lecture and practical demonstrations will be used, and students will participate in the actual operation of NMR instrument. Prerequisites: CHEM 1905.102 and 1905.330 or 1905.332 or consent of instructor.

1905.004 **APPLIED INSTRUMENTAL TECHNIQUES: INFRARED SPECTROSCOPY (1)** This course deals with the theory and application of infrared spectroscopy in Chemistry. Several infrared spectrometers, both high and low resolution, will be used for such chemical problems as structure determination, analysis of mixtures, measurement of equilibrium constants, and measurement of bond strengths. Prerequisites: CHEM 1905.330 or 1905.332 or consent of instructor.

1905.005 **APPLIED INSTRUMENTAL TECHNIQUES: MASS SPECTROMETRY (1)** The practical use and applications of the instrument. Theory will be discussed briefly, but emphasis will be on practical use of instrument in pure and applied chemical investigations. Lecture and practical demonstrations will be used, and students will participate in the actual operation of the mass spectrometer. Prerequisites: CHEM 1905.102 and 1905.330 or 1905.332 or consent of instructor.

Communication Arts and Sciences

Professor: WALLACE (Chairperson)

Associate Professors: BOSLEY, COWAN, V. GLADSTONE
(SPA Area Coordinator), LONEGAN, SCHWARTZ,
SHIPMAN (MC/GS Area Coordinator)

Assistant Professors: DWIN, JACOBS, KRATZ, LYNCH,
MACKERRON, TAYLOR, VATZ

Instructors: BAKER-FLYNN, GHITTER, KIM, LAUFER,
NAUGHTON, STANLEY

Adjunct Faculty: BORDENICK, GLADSTONE, HOLTER,
JOHNSON, KALIN, MILLER, SHANNON

The Department of Communication Arts and Sciences is composed of three areas of concentration, i.e., Speech Communication, Mass Communication, and Speech and Language Pathology and Audiology.

The Curricula in the Department are designed to provide the best possible learning and training in the communication arts and sciences. The programs of study are designed to provide, in cooperation with other departments, a broad liberal education as well as a special professional training with emphasis placed upon acquiring knowledge as well as skill. Students can select from five programs of study: (1) Speech and Drama major, Bachelor of Arts or Bachelor of Science; (2) Speech and Drama major, Secondary Education Program; (3) Public Address major; (4) Mass Communication major; or (5) Speech and Language Pathology and Audiology major. Students who wish to qualify for any of the five programs in Communication Arts and Sciences must register with the area coordinator of their chosen major.

The Master's of Science degree program in Speech and Language Pathology and Audiology is designed to enable students to meet state and national certification (and licensing) requirements in Speech and Language Pathology and Audiology. A student may elect an emphasis in either Speech Pathology, Language Pathology or Audiology. For further information see the Graduate Studies Bulletin.

Students electing majors should register as soon as possible in their college careers, preferably early in their freshman year and certainly no later than the beginning of their sophomore year.

Departmental Office

Building — VB
Room — 108A
Phone — 321-3097

Departmental Activities

Departmental activities include support for three active student organizations — Creative Interpreters Guild, Forensics Union and the National Student Speech and Hearing Association. Student participation in these organizations is encouraged. Several informal social events are scheduled each year by these organizations so that students and faculty can meet in a more relaxed atmosphere.

Career Opportunities

Career opportunities for majors in the Department of Communication Arts and Sciences are rather broad; for example, graduates from the various majors are currently working with radio and television stations, newspapers, film companies, public schools, public relations firms, hospitals, clinics and governmental agencies.

The student wishing to major in any area in the Department should call for an appointment to talk with an academic advisor.

Transfer students should register during their first semester at the college. Transfer students are required to take twenty hours in residence in their major area.

No transfer credits will be accepted toward the major or minor in Programs (1), (2), (3) or (4) until the student has made application for the credit transfer and examination through the area coordinator. Applications for transfer of credits and prior experience is the responsibility of the student. The applications and examinations will be reviewed by the area faculty and the student notified as to the status of the application.

Only those students maintaining a grade point of 2.75 in their major courses taken at Towson State University in Programs (1), (2), (3) or (4) will be recommended for a major in those programs of study. Only those students maintaining a grade point of 2.5 overall and 2.75 in the pre-major courses will be recommended as a major in Speech and Language Pathology and Audiology.

No more than six credits of Independent Study course work can be applied to the major or minor in Programs (1), (2), (3) or (4).

The following are the required courses for this academic department and the total number of credits needed by the student to fulfill the requirements for the various majors and/or minors in the department. Students are reminded that they must also meet the General Education Requirements.

BACHELORS DEGREE . . . SPEECH AND DRAMA MAJOR — ARTS AND SCIENCES PROGRAM

Requirements

Major 22

Electives 15

1506.106	Voice and Diction	(3)_____
1506.131	Fundamentals of Speech Communication	(3)_____
1506.203	Advanced Public Speaking	(3)_____
1506.221	Oral Interpretation of Literature	(3)_____
1506.310	Phonetics of American English	(3)_____
1007.231	Mime I	(3)_____
1007.311	Theatre Production	(4)_____

9 semester hours selected from:

0605.201	Introduction to Broadcasting	(3)_____
0605.202	Introduction to Film	(3)_____
0605.261	Basic Television Techniques	(3)_____
0605.267	Film Communication	(3)_____
1506.216	Group Discussion	(3)_____
1506.231	Argumentation and Debate	(3)_____
1506.249	Forensics I	(1)_____
1506.250	Forensics II	(1)_____
1506.304	Persuasion	(3)_____
1506.320	Readers Theatre	(3)_____
1506.349	Forensics III	(1)_____
1506.350	Forensics IV	(1)_____
1506.395	Independent Study in Oral Interpretation	(1-6)_____
1506.403	Classical and Modern Rhetoric	(3)_____
1506.423	Advanced Oral Interpretation	(3)_____
1598.405	American Public Address	(3)_____
1598.432	Coaching & Management of Forensics	(3)_____
1506.411	Independent Study in Chamber Theatre	(1-6)_____
1506.493	Independent Study in Readers Theatre	(1-6)_____
1506.495	Independent Study in Public Address	(1-6)_____

3 semester hours from:		
1501.309	American Drama	(3)_____
1501.321	Modern Drama	(3)_____
1501.312	World Drama I	(3)_____
1501.313	World Drama II	(3)_____
1501.319	English Medieval & Renaissance Drama	(3)_____
1501.320	English Drama from Restoration to Shaw	(3)_____
1501.415	Shakespeare (Comedies)	(3)_____
1501.416	Shakespeare (Tragedies)	(4)_____

3 semester hours from:		
1506.213	General Semantics	(3)_____
1506.402	Hearing and Speech Science	(3)_____
1506.521	Experimental Phonetics	(3)_____
1220.105	Speech and Language Development	(3)_____
1220.302	Speech Pathology I	(3)_____

The student who prepares to teach in the high school is also required to complete 1506.379, Teaching Speech and Drama in the Secondary School.

In addition, the student is strongly urged to complete satisfactorily a minor program of advanced course work in an area closely allied to the field of speech and drama, but chosen from courses offered in a department other than Speech and Drama. The minor program should be chosen with the approval of the student's departmental adviser.

The Bachelor of Arts degree may be earned by adding a foreign language to the major course requirements. The language requirement may be met by completing the intermediate course of a modern foreign language or its equivalent.

Bachelors Degree . . . Speech and Drama Major, Secondary Education Program

The course of study for the teaching major follows the program of the general major but requires, in addition, 1506.379, Teaching Speech and Drama in the Secondary School, a course in speech education for professional preparation. The prospective speech and drama teacher in the high school should also complete the required courses in secondary education in order to be certified for teaching. Speech Education majors should consult with advisor to determine minor area of certification. Speech and Drama secondary majors are very strongly urged to complete 24 hours of English courses, plus 0803.360, Teaching Reading in the Secondary School and 0803.357, Teaching English in the School. Student must complete 24 hours of Speech before taking 1506.379. Speech and Drama Secondary Education. Majors must register with the departmental secretary one full semester prior to the semester in which they register for student teaching. Student teaching should be done the first semester of the senior year. It is also the student's responsibility to see that he/she is meeting the State Requirements under which certification is being sought.

SPEECH AND DRAMA MINOR

Requirements

Minor	22
Electives	2

20 semester hours from:		
1506.106	Voice and Diction	(3)_____
1506.131	Fundamentals of Speech Communication	(3)_____
1506.201	Oral Interpretation of Literature	(3)_____

1506.203	Advanced Public Speaking	(3)_____
1506.310	Phonetics of American English	(3)_____
1007.231	Mime I	(3)_____
1007.311	Theatre Production	(4)_____

2 semester hours chosen in consultation with advisor.

BACHELORS DEGREE . . . PUBLIC ADDRESS

This program is designed to allow the student to pursue, in depth, study in the area of rhetoric and public address; i.e., the theory and practice of speechmaking. This study includes the scientific nature of the speech process, theories of interpersonal communication, introduction to the speech arts of discussion, debate, oral interpretation of literature, persuasive speaking, and the history and criticism of public speaking. The program is designed for the student interested in college teaching, coaching, and research in speech communication. It also serves as excellent preparation for a career in business or government.

Requirements

Major	30
Electives	6

12 semester hours from:		
1506.106	Voice and Diction	(3)_____
1506.131	Fundamentals of Speech Communication	(3)_____
1506.202	Advanced Public Speaking	(3)_____

3 credits chosen in consultation with advisor.

6 semester hours from:		
1506.216	Group Discussion	(3)_____
1506.249, 250	Forensics I, II	(1, 1)_____
1506.349, 350	Forensics III, IV	(1, 1)_____
1506.432	Coaching & Management of Forensics	(3)_____
1598.231	Argumentation & Debate	(3)_____

6 semester hours from:		
1506.221	Oral Interpretation of Literature	(3)_____
1506.320	Readers Theatre	(3)_____
0605.261	Basic Television Techniques	(3)_____
0605.361	Advanced Television Techniques	(3)_____

6 semester hours from:		
1506.304	Persuasion	(3)_____
1506.402	Speech and Hearing Science	(3)_____
1598.403	Classical & Modern Rhetoric	(3)_____
1598.405	American Public Address	(3)_____
1598.406	British Public Address	(3)_____
1598.495	Independent Study in Public Address	(1-6)_____
0605.385	Mass Media in a Modern Society	(3)_____

6 semester hours from:
 Courses directed more specifically towards the student's vocational objectives with the advice and consent of the student's speech department's advisor.

PUBLIC ADDRESS MINOR

Requirements

Minor	15
Electives	9

15 semester hours from:		
1506.106	Voice and Diction	(3)_____
1506.131	Fundamentals of Speech Communication	(3)_____

1506.203	Advanced Public Speaking	(3)_____
1506.221	Oral Interpretation of Literature	(3)_____
0605.315	Business and Professional Speech	(3)_____

9 semester hours from:

Chosen in consultation with speech department's advisor.

The Bachelor of Arts Degree may be earned by adding a foreign language to the major course requirements. The language requirement can be met by completing the intermediate course of a modern foreign language or its equivalent.

BACHELORS DEGREE . . . MASS COMMUNICATIONS

This program offers a broad understanding of the processes, functions and responsibilities of mass communications. Development of skills in fact finding, analysis and communication through the mass media is stressed. The program prepares the student for graduate work and offers excellent background for many careers such as law, public relations, business, communications media, sales and management. Flexibility is purposely built into the program so that the needs of students with special vocational objectives may be met.

Majors are advised to obtain a broad background in the fine arts, humanities, and social sciences.

Requirements

Major	18
Electives	18

18 semester hours from:

0605.101	Introduction to Mass Communications	(0)_____
0605.151	Journalism in a Free Society	(3)_____
0605.201	Introduction to Broadcasting	(3)_____
0605.202	Introduction to Film	(3)_____
0605.211	Communication Process	(3)_____
0605.315	Business & Professional Speech	(3)_____
0605.353	Publicity and Public Relations	(3)_____

3 semester hours from the following production courses:

0605.261	Basic Television Techniques	(3)_____
0605.265	Basic Radio Production	(3)_____
0605.267	Film Communication	(3)_____

3 semester hours from the following writing courses:

0605.355	News writing	(3)_____
0605.358	News editing & Copyreading	(3)_____
0605.367	Television Writing	(3)_____
0605.496	Independent Study in Journalism	(1-6)_____
0605.497	Independent Study in Public Relations	(1-6)_____

NOTE: Independent Study courses are by consent only and only 6 credits of Independent Study courses may be applied to the major or minor.

12 semester hours selected from the following courses of theory and cognition:

0605.001	Washington Film Seminar	(3)_____
0605.002	Producing a Television Series	(3)_____
0605.003	Broadcast Production Engineering	(3)_____
0605.214	Introduction to Advertising	(3)_____
0605.261	Basic Television Techniques	(3)_____
0605.265	Basic Radio Production	(3)_____
0605.267	Film Communication	(3)_____
0605.351	Public Opinion and the Press	(3)_____

0605.352	History of Journalism	(3)_____
0605.355	News writing	(3)_____
0605.356	Feature Writing	(3)_____
0605.358	News editing & Copyreading	(3)_____
0605.359	Magazine Publishing	(3)_____
0605.361	Advanced Television Techniques	(3)_____
0605.363	History of Film	(3)_____
0605.364	Aesthetics of the Film	(3)_____
0605.367	Television Writing	(3)_____
0605.491	Independent Study in Film	(1-6)_____
0605.493	Independent Study in Radio	(1-6)_____
0605.495	Independent Study in Television	(1-6)_____
0605.496	Independent Study in Journalism	(1-6)_____
0605.497	Independent Study in Public Relations	(1-6)_____
1506.216	Group Discussion	(3)_____
1506.221	Oral Interpretation of Literature	(3)_____
1506.304	Persuasion	(3)_____
1598.231	Argumentation & Debate	(3)_____

NOTE: Any courses listed under any category may be used as elective credit if not chosen for fulfillment of major/minor requirements.

The Bachelor of Arts Degree may be earned by adding a foreign language to the major course requirements. The language requirement can be met by completing the intermediate course of a modern foreign language or its equivalent.

MASS COMMUNICATIONS MINOR

Requirements

Minor	18
Electives	6

18 semester hours from:

0605.101	Introduction to Mass Communications	(0)_____
0605.151	Journalism in a Free Society	(3)_____
0605.201	Introduction to Broadcasting	(3)_____
0605.202	Introduction to Film	(3)_____
0605.211	Communication Process	(3)_____
0605.315	Business & Professional Speech	(3)_____
0605.353	Publicity & Public Relations	(3)_____

3 semester hours from:

0605.261	Basic Television Techniques	(3)_____
0605.265	Basic Radio Production	(3)_____
0605.267	Film Communication	(3)_____
0605.355	News writing	(3)_____
0605.358	News editing & Copyreading	(3)_____
0605.367	Television Writing	(3)_____

3 semester hours from:

0605.001	Washington Film Seminar	(3)_____
0605.002	Producing a Television Series	(3)_____
0605.003	Broadcast Production Engineering	(3)_____
0605.214	Introduction to Advertising	(3)_____
0605.261	Basic Television Techniques	(3)_____
0605.265	Basic Radio Production	(3)_____
0605.267	Film Communication	(3)_____
0605.351	Public Opinion and the Press	(3)_____
0605.352	History of Journalism	(3)_____
0605.355	News writing	(3)_____
0605.356	Feature Writing	(3)_____
0605.358	News editing & Copyreading	(3)_____

0605.359	Magazine Publishing	(3)_____
0605.361	Advanced Television Techniques	(3)_____
0605.363	History of Film	(3)_____
0605.364	Aesthetics of the Film	(3)_____
0605.367	Television Writing	(3)_____
0605.491	Independent Study in Film	(1-6)_____
0605.493	Independent Study in Radio	(1-6)_____
0605.495	Independent Study in Television	(1-6)_____
0605.496	Independent Study in Journalism	(1-6)_____
0605.497	Independent Study in Public Relations	(1-6)_____
1506.216	Group Discussion	(3)_____
1506.221	Oral Interpretation of Literature	(3)_____
1506.304	Persuasion	(3)_____
1596.231	Argumentation and Debate	(3)_____

NOTE: Any courses listed under any category may be used as elective credit if not chosen for fulfillment of major/minor requirements.

Bachelors Degree . . . Speech and Language Pathology and Audiology

Students who major in this area pursue a course of study which prepares them (a) for graduate study, and (b) to do clinical work in public schools, in colleges, in medical and paramedical institutions. This program is supplemented by courses from the Department of Psychology and the Department of Education.

It is recommended that students interested in declaring a major in this area should do so as soon as possible and preferably no later than the end of the first semester of the sophomore year.

Students must petition the Department for enrollment in 1220.488, Clinical Practicum II by mid-term of the semester preceding the one during which they expect to complete 1220.488.

Certification by the Maryland State Department of Education and Licensure by the Maryland Boards of Examiners in Speech Pathology and Audiology require a Master's degree in the appropriate area; i.e., speech pathology, language pathology, or audiology.

Requirements for Matriculation in the Speech and Language Pathology and Audiology Major

Students should first apply and gain admission to Towson State University. While applying for admission to the University, the student may also wish to contact the Speech and Language Pathology and Audiology office for advising. After gaining admission to the University the student should contact the Speech and Language Pathology and Audiology office to have his/her name put on the Pre-Speech and Language Pathology and Audiology Major List. At this time the student must schedule an appointment with a faculty member to discuss the following:

- (1) The nature of the profession.
- (2) The need of a Master's degree in Speech and Language Pathology and Audiology to be certified by the Maryland State Department of Education.
- (3) The need of a Master's degree for licensure in Speech and Language Pathology and Audiology to work in hospitals and community clinics in the State of Maryland.
- (4) The requirement of a year of clinical fellowship.
- (5) The national certification examination.
- (6) The procedures for requesting admission to the major.

The student declares his/her interest by placing his/her name on the pre-major list.

Pre-Major Requirements

Prerequisites to be completed during the first two years before the student is admitted to the major must include: 1220.105, Speech and Language Development; 1506.310, Phonetics of American English; 1220.400, Anatomy and Physiology of the Auditory and Vocal Mechanism; 1506.402, Hearing and Speech Science; 2001.101, General Psychology.

The Department of Communication Arts and Sciences requires that those students electing to major in Speech/Language Pathology and Audiology must have proficiency in all areas of communication — reading, writing and oral communication. The faculty expects adequate reading, writing, speaking (language skills), and computational abilities from students. The faculty is encouraged to utilize an essay format for course examination to elicit information concerning all aspects of language use and comprehension. To further assess student communication skills it is required that all students declaring pre-major intent in the area of Speech Pathology/Audiology must undergo evaluation of Speech, Language, Voice, and Hearing functions prior to being admitted to major status. Each student will be given, upon declaring their pre-major intent, a copy of the Department's screening policy for pre-major and major students in Speech/Language Pathology and Audiology.

Each candidate for major status will be expected to have a minimum cumulative grade point average of 2.5 on a 4.0 scale for all lower division course work, and a 2.75 average in the above mentioned five courses.

It is important to maintain such high standards of expectation and performance as all persons seeking to practice speech and language pathology and audiology in the State of Maryland must obtain a Master's degree and admission to graduate school is pre-eminently dependent upon excellence in undergraduate performance.

Limited enrollment into the Speech and Language Pathology and Audiology major is due to limitation in the number of clinical practicum experiences available, clinical supervisors, and space. Forty (40) students will be accepted to study in Speech and Language Pathology and Audiology yearly.

The student must submit to the Speech and Language Pathology and Audiology area an official transcript of any academic work pursued at *all* institutions of higher learning. All of the five pre-major courses listed above must have been completed within the previous ten years and by the time they enter the major in their junior year.

All students meeting the requirements of the above will be placed in rank order according to cumulative grade point average. Admission will be extended to students with the highest cumulative grade point averages.

Prior to University preregistration, students will be admitted to the Speech and Language Pathology and Audiology major during the Spring semester of their sophomore year contingent upon compliance with the above criteria. Failure to do so will result in automatic forfeiture of admission, for that admitting period, to the area of Speech and Language Pathology and Audiology. Any vacancies thus created will be filled by students from the rank order list.

Transfer Students

Transfer students must first gain admission to Towson State University and request that their name be put on the

Pre-Speech and Language Pathology and Audiology major list. A student may request that her/his application be reviewed at a later Spring semester in his academic career, with the understanding that completion of the degree may be delayed.

Students who have completed the five specific pre-major courses must submit their transcripts to the Department for evaluation for matriculation with major status by February 15. Matriculation in the following Fall semester in the Speech and Language Pathology and Audiology major will be contingent upon their position in the rank order list and satisfactory fulfillment of the hearing, language, speech and voice evaluation requirement.

Requirements

Major 36

36 semester hours from:

1220.105	Speech and Language Development	(3)_____
1220.302	Speech and Language Pathology I: Articulation	(3)_____
1220.304	Speech and Language Pathology II: Language	(3)_____
1220.305	Stuttering: Etiology & Therapy	(3)_____
1220.306	Speech and Language Pathology III: Organic Disorders	(3)_____
1220.321	Introduction to Audiology	(3)_____
1220.400	Anatomy & Physiology of the Auditory & Vocal Mechanism	(3)_____
1220.486	Clinical Observations & Techniques	(3)_____
1220.487	Clinical Practicum I	(3)_____
1220.488	Clinical Practicum II	(6-9)_____
1506.310	Phonetics of American English	(3)_____
1506.402	Hearing & Speech Science	(3)_____

(Students must petition the Department for enrollment in 1220.488 by mid-semester of the semester preceding the one during which they expect to complete 1220.488, Clinical Practicum II. 1220.488 is not required for graduation when a second 1220.487 is elected.)

Students are encouraged to elect additional courses such as:

1506.213	General Semantics	(3)_____
1220.341	Clinical Audiology	(3)_____
1220.404	Professional Programs, Problems & Relationships	(3)_____
1220.489	Clinical Counseling in Audiology & Speech Pathology	(3)_____
1220.496	Independent Study in Speech Pathology & Audiology	(1-4)_____
1220.497	Directed Readings in Speech Pathology & Audiology	(1-4)_____

The Bachelor of Arts Degree may be earned by adding a foreign language to the major course requirements. The language requirement can be met by completing the intermediate course of a modern foreign language or its equivalent.

MASS COMMUNICATION COURSES (0605)

Lower Division — Undergraduate

0605.101 INTRODUCTION TO MASS COMMUNICATION (0) A laboratory course designed to introduce the student to the mass communications major at Towson State University. The introduction will include the role of mass media, careers, and a description of courses available. This information will be obtained through the Dial Access system. (F, W, S)

0605.151 JOURNALISM IN A FREE SOCIETY (3) Examination of the role of journalism in the mass com-

munication process and its significance in a free society. Prerequisite: English 1501.102. (F, W)

0605.201 INTRODUCTION TO BROADCASTING (3) An introduction to the concepts of the role of history, science, politics, and economics in the development and present status of broadcasting. (F, W)

0605.202 INTRODUCTION TO FILM (3) An introduction to motion picture communication, technology, and terminology with film analysis and filmmaking projects. (F, W).

0605.211 COMMUNICATION PROCESS (3) Introduction to the communication process with emphasis on the functions of language and the problems of responsibility in communication. (F, W)

0605.213 LISTENING (3) Course is designed to discuss, exemplify, and practice listening skills. Intensive study of individual listening ability with emphases placed upon awareness and improvement.

0605.214 INTRODUCTION TO ADVERTISING (3) Review of the contribution made by advertising to the United States economy, and of the principles and practices as applied to electronic and printed media. (F, W)

0605.252 HISTORY OF JOURNALISM (3) Critical study of the development of the English language press; emphasis on the American press and its role in the political and economic progress of this country. (W)

0605.261 BASIC TELEVISION TECHNIQUES (3) An introduction to the basic principles, procedures, and techniques of television production. Students will be required to participate on the college television production crew. (F, W, S)

0605.265 BASIC RADIO PRODUCTION (3) A course structured to introduce the student to the equipment and performance techniques necessary to produce a variety of radio show formats. The student will be required to participate on the campus radio station. Prerequisites: 0605.201, 1506.131. (F, W)

0605.267 FILM COMMUNICATION (3) An introduction to the techniques and theories of motion picture production. Students design, film, and edit their own projects. Prerequisites: 0605.202 and consent of instructor. (F, W)

Upper Division — Undergraduate and Graduate

0605.315 BUSINESS AND PROFESSIONAL SPEECH (3) The student will participate in various types of speeches and study discussion, conference techniques, and parliamentary procedure. Prerequisites: 1506.131 or equivalent. (F, W, S)

0605.351 PUBLIC OPINION AND THE PRESS (3) Journalistic aspects of public opinion and propaganda; the impact of mass communications media on the formation of public opinion. Techniques of polling and testing public opinion.

0605.353 PUBLICITY AND PUBLIC RELATIONS (3) Provides an awareness and understanding of public relations activities. Students learn publicity techniques and how to organize campaigns. (F, W, S)

0605.355 NEWSWRITING (3) Introduction to news-writing from the standpoint of style, structure and readability. Prerequisites: 0605.151, and one English Composition course. (F, W)

0605.356 FEATURE WRITING (3) Preparation of long and short articles, editorials and news features. Prerequisite: 0605.355 and One English Composition course. (F, W)

- 0605.358 **NEWS EDITING AND COPYREADING (3)** Practice in editing, headline writing, page make-up and use of pictures and type in newspapers, and editing copy for use on radio and television. Prerequisite: 0605.355 or 0605.356. (F, W)
- 0605.359 **MAGAZINE PUBLISHING (3)** Examination of the principal practices, problems, and trends in magazine publishing through tracing process of a magazine from copy to bindery. Steps in periodical production stressing emphasis on layout factors. Intensive analysis of magazine markets and case studies of magazine publishing problems. Prerequisite: 0605.151, 0605.355, 0605.356, 0605.358.
- 0605.361 **ADVANCED TELEVISION TECHNIQUES (3)** Advanced techniques in television production and performance for commercial and educational television. Major emphasis on directing. Prerequisite: 0605.261 or consent of instructor. (F, W)
- 0605.363 **HISTORY OF FILM (3)** Exploration of the social, artistic, economic, and technical factors in the development of the motion picture from 1900 to the present. Prerequisite: 0605.202. (F)
- 0605.364 **AESTHETICS OF THE FILM (3)** Survey of film theory and aesthetics of silent, sound and avant-garde motion pictures. Prerequisite: 0605.363 or consent of instructor. (S)
- 0605.367 **TELEVISION WRITING (3)** Training and practice in writing commercials, documentaries and plays for the specific medium of television — commercial and educational. Prerequisites: 1501.102, 1501.204 and 0605.261. (W)
- 0605.385 **MASS MEDIA IN MODERN SOCIETY (3)** Seminar in mass media, concentrating on audience, content and effects of the media. Prerequisites: 0605.151, 0605.202. (F, W)
- 0605.421 **FINANCIAL COMMUNICATIONS (3)** Develops understanding of business financial fundamentals and techniques for communicating with the financial community including news announcements, annual and quarterly reports, and legal requirements. Prerequisite: One course in Business Administration or Journalism, or consent of Instructor.
- 0605.451 **ASSOCIATION PUBLIC RELATIONS AND MANAGEMENT (3)** Management and public relations techniques for volunteers and professionals working in professional, social, and charitable associations. Contacts made with community agencies and associations are the basis for "practical experience" lab sessions. Prerequisite: 0605.151, 0605.353, 0605.355.
- 0605.475 **FILM WORKSHOP (3)** Designed primarily to provide experienced or future teachers with background about film so that they may better help pupils to become informed about and to develop critical reactions to the films they view. Prerequisite: Consent of instructor. (First summer session)
- 0605.485 **NEWSPAPER IN THE CLASSROOM WORKSHOP (3)** Sponsored by the member newspapers of the Maryland-Delaware-D.C. Press Association. Designed to demonstrate various methods for practical application of the newspaper as a living textbook and to give teachers background information which will facilitate the use of this teaching tool. Specialized discussion groups are arranged by grade level and subject matter, including remedial reading, and are led by practicing instructors using the newspaper in their classrooms. (Graduate or Undergraduate credit.) Prerequisite: Consent of Instructor for Undergraduates.
- 0605.491 **INDEPENDENT STUDY IN FILM (1-6)** Independent work in film production and research. Production

students may work independently, with campus production unit or with professional production company. Prerequisites: 0605.202, 0605.267 or Consent of Instructor. (F, W, S and mini)

- 0605.493 **INDEPENDENT STUDY IN RADIO (1-6)** Independent study in selected areas of radio through directed readings, projects in conjunction with the operation of the student radio station or work with a full-time professional in the community. Selected students may work as laboratory assistants in the 0605.265 Basic Radio Production class. Prerequisites: 0605.265 and/or participation as a staff member on a campus or community radio. (F, W, S and mini)
- 0605.495 **INDEPENDENT STUDY IN TELEVISION (1-6)** Independent study in selected areas of television production and research through selected readings, projects, papers and seminars. May be repeated at a later time for a maximum of six credits total. Prerequisites: 0605.361 or Consent of Instructor. (F, W, S & mini)
- 0605.496 **INDEPENDENT STUDY IN JOURNALISM (1-6)** Independent study in the varied aspects of newspaper writing. Opportunity will be provided to work under the guidance of professional newspapermen connected with the Baltimore papers. Prerequisites: Open by invitation of the department to qualified students. (F, W, S, mini)
- 0605.497 **INDEPENDENT STUDY IN PUBLIC RELATIONS (1-6)** Independent study in selected areas of public relations through directed readings, projects, papers or seminars. When possible opportunity will be provided for the student to work outside the classroom, under the cooperative guidance of his/her instructor and a full-time professional public relations person in the field of the student's choice. Prerequisites: Open by invitation of the department to qualified students. (F, W, S and mini)

GENERAL SPEECH COURSES (SPEECH = 1506; PUBLIC ADDRESS = 1598)

Lower Division — Undergraduate

- 1506.106 **VOICE AND DICTION (3)** Analysis of articulatory and vocal usage as they relate to spoken language. Improvement of skills in voice, articulation, and pronunciation. (F, W)
- 1506.131 **FUNDAMENTALS OF SPEECH COMMUNICATION (3)** Course is designed to assist the student in developing skills needed in interpersonal and public communication. These skills include effective listening and speaking, expressing social consciousness, ethical responsibility and self identification. (F, W, S)
- 1506.203 **ADVANCED PUBLIC SPEAKING (3)** Principles of speech composition and organization. Study of manuscript, extemporaneous and impromptu speaking. Principles and application of speech analysis and criticism. Prerequisite: 1506.131 or consent of instructor. (F, W)
- 1506.213 **GENERAL SEMANTICS (3)** The effects of language and symbols upon individual adjustment and maladjustment. Semantic applications in audiology, education, speech pathology, and other arts and sciences.
- 1506.216 **GROUP DISCUSSION (3)** Theory and methods of group discussion; practice in forums, panels, and other forms of group communication. (F, W, S)
- 1598.219 **PARLIAMENTARY PROCEDURE (1)** Brief analysis of history and philosophy of parliamentary law and study and practice of the procedure for conducting and participating in meetings. Fall — even numbered years.
- 1506.221 **ORAL INTERPRETATION OF LITERATURE (3)** General principles of oral reading and the art of

interpretation in poetry, drama, and the short story. Prerequisite: 1506.131 or consent of instructor. (F, W)

1598.231 ARGUMENTATION AND DEBATE (3) Essentials of argumentation; research, analysis, evidence, reasoning, case construction and refutation. Applications in public speaking and in college debate. Prerequisites: 1506.131 or consent of instructor. (F)

1506.249-1506.250 FORENSICS I, II (1,1) Practical work in debate, oratory, extemporaneous speaking, and other speech projects. Study of national debate questions, and opportunity to participate in forensic activities or a Speaker's Bureau. Prerequisite: Consent of Instructor. (F, W)

Upper Division — Undergraduate Only

1506.349-1506.350 FORENSICS III, IV (1,1) Refer to 1506.249, 1506.250 for course description. Prerequisite: 1506.249-250 and consent of instructor. (F, W)

1506.375 SPEECH IN THE ELEMENTARY SCHOOL (3) A study of speech needs of the elementary school child and current methods and materials used by the classroom teacher in meeting needs. Not open to SPPA majors. (F, W)

1506.379 TEACHING SPEECH AND DRAMA IN THE SECONDARY SCHOOL (3) Problems, materials, methods and techniques in specific speech instruction areas; integration of speech and drama in co-curricular school activities. Open only to students in the student teaching block. (Fall only)

Upper Division — Undergraduate and Graduate

1506.304 PERSUASION (3) Theory and practice of linguistic and symbolic persuasion; applications of rhetorical principles in social sciences and formal and informal communication; analysis of rhetoric through discussion. Prerequisite: 1506.131.

1506.310 PHONETICS OF AMERICAN ENGLISH (3) Analysis of speech sounds of American English and the use of phonetic symbols to record them. Emphasizes ear training, phonetic transcription, and language recordings. (F, W)

1506.320 READERS THEATRE (3) Oral interpretation of selections from dramatic literature and individual and group reading. Includes principles of selecting, cutting, and programming in literature. Prerequisite: 1506.221 or consent of instructor. (W)

1506.395 INDEPENDENT STUDY IN ORAL INTERPRETATION (1-6) Independent study in selected areas of oral interpretation through directed readings, projects, papers or seminars. Prerequisites: 1506.221 and consent of instructor. (F, W) (S, by request.)

1506.402 HEARING AND SPEECH SCIENCE (3) Lectures, readings, and demonstrations designed to introduce the student to the various physical and psychological parameters of speech and hearing and how they are studied. Prerequisite: 1506.310, 1220.400.

1598.403 CLASSICAL AND MODERN RHETORIC (3) Survey of rhetorical theory from Isocrates to contemporary communication theorists. Particular attention is given to Aristotle, Cicero and Quintillian. Designed to develop standards of rhetorical criticism. (W) — odd numbered years.

1598.405 AMERICAN PUBLIC ADDRESS (3) History and criticism of two centuries of public address in the United States, the great speakers, their historical environment, their beliefs and effects on American life. Prerequisite: 1506.203 or 2205.145 or consent of instructor. (F) — even numbered years.

1598.406 BRITISH PUBLIC ADDRESS (3) Public address in Great Britain, the great speakers, their historical environment, their beliefs and effects on American life. Prerequisite: 1506.203 or 2205.121 or consent of instructor. (F) — odd numbered years.

1506.411 INDEPENDENT STUDY IN CHAMBER THEATRE (1-6) Independent study in selected areas of Chamber Theatre through directed readings, projects, performances, papers or seminars. Prerequisites: 1506.320.

1506.423 ADVANCED ORAL INTERPRETATION OF LITERATURE (3) Advanced theory and practice of oral interpretation with emphasis placed upon the relationship of the dramatic structure to the interpreter's performance. Prerequisites: 1506.221 and consent of instructor. (W)

1506.432 THE COACHING AND MANAGEMENT OF FORENSICS (3) 2nd semester of even-numbered years only. Problems of organizing, financing, and directing the forensic program in schools and colleges. Coaching, schedules, and techniques for debate and individual speech events. Competing philosophies of forensics and secondary school and college-level forensic organization are studied. (W) — even numbered years.

1506.493 INDEPENDENT STUDY IN READERS THEATRE (1-6) Independent study in selected areas of Readers Theatre through directed readings, projects, papers or seminars. Prerequisite: 1506.320 or consent of instructor. (F, W) (S, upon request.)

1598.495 INDEPENDENT STUDY IN PUBLIC ADDRESS (1-6) Independent study in selected areas of public address through directed readings, projects, papers, or seminars. Prerequisite: consent of instructor. (F, W, S)

Graduate Division

1506.521 EXPERIMENTAL PHONETICS (3) An advanced course in the study of Phonetic Science. Concerned with the application of experimental methods to study and research in voice and phonetics, especially spectrographic analysis. Includes critical review of research literature in Scientific Phonetics. Prerequisite: 1506.310 or consent of instructor.

SPEECH PATHOLOGY AND AUDIOLOGY COURSES (1220)

Lower Division — Undergraduate

1220.105 SPEECH AND LANGUAGE DEVELOPMENT (3) Analysis of normal speech and language development, including the phonetic, semantic, and syntactic elements. Physiology of speech and language learning. Observation will be required.

Upper Division — Undergraduate and Graduate

1220.302 SPEECH AND LANGUAGE PATHOLOGY I: ARTICULATION (3) Academic information and clinical techniques for the problem of misarticulations. Phonological development, past and current theories on the nature of misarticulations, recent test measurements and traditional and current programs of remediation will be presented. Observations will be required. Prerequisites: 1220.105 and 1506.310.

1220.304 SPEECH AND LANGUAGE PATHOLOGY II: LANGUAGE (3) This course will focus upon the interaction of normal language development and language disorders and includes the following topics: psycholinguistics, semantic development, information processing and auditory memory. Observation will be required. Prerequisites: 1220.105, 1506.310.

- 1220.305 **STUTTERING — ETIOLOGY AND THERAPY**
(3) Analysis of etiologies, symptoms and therapeutic management of stuttering. Prerequisite: 1220.105.
- 1220.306 **SPEECH AND LANGUAGE PATHOLOGY III: ORGANIC DISORDERS** (3) An introduction to the etiology, differential diagnosis and therapeutic management in the area of organic and functional voice problems, cleft lip and palate, adult aphasia, cerebral palsy and mental retardation. Prerequisites: 1220.302 and 1220.304.
- 1220.321 **INTRODUCTION TO AUDIOLOGY** (3) Anatomy, physiology and pathologies of the hearing mechanism. Symptoms and causes of hearing disorders. Pure tone air conduction testing and screening methods. Observation and practice will be required. Prerequisites: 1220.105, 1506.402 or consent of instructor.
- 1220.341 **CLINICAL AUDIOLOGY** (3) This advanced undergraduate course will explore basic audiometry; audiogram interpretation; basic principles of audiologic habilitation including school hearing conservation. Prerequisite: 1220.321.
- 1220.400 **ANATOMY AND PHYSIOLOGY OF THE AUDITORY AND VOCAL MECHANISM** (3) Analysis of the anatomical structures involved in the communication processes of Speech, Language, and Hearing. Analysis of the functioning of these structures. Lectures and laboratory sessions will be required. Prerequisite: 1220.105.
- 1220.404 **PROFESSIONAL PROGRAMS, PROBLEMS AND RELATIONSHIPS** (3) Organization and administration of speech pathology and audiology programs in various professional settings; personal, professional and community relationships and responsibilities. Observation will be required. Prerequisite: 1220.487 or consent of instructor.
- 1220.407 **AURAL HABILITATION/REHABILITATION**
(3) Theories, objectives and techniques for the teaching of speech reading, speech conservation and auditory training. Observation and practice will be required. Prerequisite: 1220.321.
- 1220.408 **SPECIAL PROBLEMS SEMINAR — CLEFT PALATE** (3) A multidisciplinary approach to all aspects of the patient with a cleft palate which would include lectures on etiology, embryology, speech patterns, otological and audiological considerations, dental and plastic reconstruction, speech therapy and follow-up. Prerequisite: 1220.306.
- 1220.409 **SPEECH AND LANGUAGE FOR THE DEAF CHILD** (3) Principles and techniques for developing speech and language in the deaf child using whole-word and analytical methods; consideration of multiple handicaps; demonstration and observation will be required. Prerequisite: 1220.105, 1220.321, 1220.407 or consent of instructor.
- 1220.410 **SPECIAL PROBLEMS PRACTICUM — CLEFT PALATE** (3) Clinical practice in all aspects of the patient with a cleft palate. Prerequisite: 1220.306.
- 1220.411 **SEMINAR/WORKSHOP IN SPEECH PATHOLOGY AND AUDIOLOGY—SPEECH AND LANGUAGE DEVELOPMENT FOR THE SPEECH AND LANGUAGE DEPRIVED** (6) Diagnostic, therapeutic and methods for the management of children who are deprived in the areas of speech and language. Prerequisite: 1220.306 or professional experience or consent of instructor.
- 1220.414 **SPECIAL PROBLEMS SEMINAR** (3) Concentrated investigation of particular problems in the field of speech pathology and audiology. The problems will vary each semester the course is offered. (Individuals having professional experience may receive credit through a proficiency examination.) Prerequisite: Professional experience or invitation of department.
- 1220.421 **SEMINAR/WORKSHOP — HEARING IMPAIRED** (6) Psychology and science of hearing and anatomy of the hearing mechanism will be reviewed. Investigation of communication, educational, vocational, psychological and social problems of the hearing impaired as these relate to personal adjustment in today's society. The study of the principles and techniques of teaching the hearing impaired.
- 1220.431 **IDENTIFICATION AUDIOMETRY** (3) This course is intended to present rationales and techniques for identifying auditory disorders in various populations and environments. Prerequisites: Consent of instructor.
- 1220.441 **INDUSTRIAL AND ENVIRONMENTAL AUDIOLOGY** (3) This course is designed to provide extensive information in the area of noise and its effect on hearing. Industrial, community, and environmental aspects will be covered including hearing conservation programs. Prerequisite: Consent of instructor.
- 1220.451 **AUDIOLOGICAL MANAGEMENT OF THE EXCEPTIONAL CHILD** (3) Principles and techniques for identifying and evaluating hearing impaired children; consideration of multiple handicaps; demonstration and practice. Prerequisites: 1220.341 or consent of instructor.
- 1220.461 **HEARING AID SELECTION PROCEDURES AND SPEECH AUDIOMETRY** (3) Nature and types of amplifying systems used with the hearing impaired. Electroacoustic characteristics, principles and methods of selection and usage. Use of speech signals in evaluating the auditory system. Prerequisite: Consent of instructor.
- 1220.481 **DIALECTS OF ETHNIC GROUPS IN AMERICAN SOCIETY** (3) Academic information that will help the student acquire an understanding of the cultural and social aspects of certain ethnic groups in American society and train the student in assessment of divergent language patterns and effective management of a language program based on the individual needs of the population served. Prerequisite: 1220.302.
- 1220.486 **CLINICAL OBSERVATIONS AND TECHNIQUES** (3) Observation and application of techniques essential to the management of hearing, language, and speech disorders. Prerequisites: 1220.302, 1220.304.
- 1220.487 **CLINICAL PRACTICUM I (1-3)** Clinical observation of and practice in therapeutic procedures with various types of speech, language and/or hearing disorders in the Towson State University Speech and Hearing Clinic. Students may also be assigned a practicum in the Lida Lee Tall School and/or various centers that offer speech, language or hearing therapy, such as hospitals or private agencies. (Repeatable once. Must be taken second time if 1220.488 is not elected.) Prerequisites: 1220.486 and consent of chairperson.
- 1220.488 **CLINICAL PRACTICUM II (6-9)** Students are assigned to an approved therapy program for observation and practicum experience. The student will earn a minimum of 150 of the 300 clinical clock hours required for certification. Prerequisites: 1220.487 and consent of chairperson. (Only 3 credits will count toward satisfying the requirements for a major in Speech Pathology and Audiology.)
- 1220.489 **CLINICAL COUNSELING IN AUDIOLOGY AND SPEECH PATHOLOGY** (3) Systems of directive and nondirective counseling utilized by speech and hearing clinicians for the management of organic and nonorganic disorders. Techniques of interviewing, case history recording, and the conditioning of semantic reactions through interpersonal interaction. Prerequisite: 1220.486.
- 1220.490 **VOICE DISORDERS: ETIOLOGY, DIAGNOSIS, TREATMENT AND RESEARCH** (3) Investigation

of etiology, diagnosis and treatment of organic and functional disorders of voice in children and adults. Investigate the scientific literature dealing with voice disorders in children and adults. Prerequisites: 1220.486. Not open to those students who have completed 1220.485.

1220.491 **ARTICULATION DISORDERS: ETIOLOGY, DIAGNOSIS, TREATMENT AND RESEARCH (3)** Investigation of current diagnostic procedures and treatment programs for articulation disorders in children and adults. Investigation of scientific literature dealing with articulatory disorders of a functional nature. Prerequisites: 1220.486. Not open to those students who have completed 1220.485.

1220.496 **INDEPENDENT STUDY IN SPEECH PATHOLOGY AND AUDIOLOGY (1-4)** Independent study in selected areas of Speech Pathology and Audiology through projects, papers and seminars. A portion of the course may involve assisting in laboratory experiences in connection with Speech Pathology and Audiology course(s). Prerequisites: Invitation of Department only and upper division standing.

1220.497 **DIRECTED READINGS IN SPEECH PATHOLOGY AND AUDIOLOGY (1-4)** Directed readings in selected areas of Speech Pathology and Audiology in order to provide for the individual a comprehensive coverage of a special area within the broader range of communication disorders or to meet special needs of students. Prerequisites: Upper division standing and by invitation of the department.

1220.498 **PROCTORING IN SPEECH AND LANGUAGE PATHOLOGY AND AUDIOLOGY (3)** Students serve as teaching apprentices or proctors in a course which they have already completed in the Department. The experience will include guidance, support and motivation of assigned students, all in a supervised situation. The experience may be repeated in a subsequent semester in a different course for a maximum of 6 credits. Prerequisites: Successful completion with a grade of "B" or better of the course which the student is to proctor and consent of the instructor.

Graduate Division

1220.501 **LANGUAGE DISORDERS OF CHILDREN (3)** Investigation of mental retardation, emotional disturbance and hearing loss in children in terms of speech and language disorders. Prerequisite: 1220.105, 1220.302.

1220.505 **NEUROPATHOLOGIES OF SPEECH (3)** Etiology, nature and management of cerebral palsy and minimal brain damage in children, and dysphasia in adults. Prerequisite: 1220.306 and 1220.487.

1220.507 **DIAGNOSTIC METHODS IN SPEECH PATHOLOGY (3)** Standardized and non-standardized techniques for testing the speech, language and general intellectual functioning of children and adults. Practicum experience in speech evaluations and report writing. Prerequisite: 1220.485, 1220.505.

1220.511 **APPLICATION OF LINGUISTICS TO SPEECH PATHOLOGY (3)** Investigation of traditional and contemporary research in the area of psycholinguistics and generative grammar. Application of this to diagnosis and management of those with language disorders. Prerequisites: Graduate Standing.

1220.513 **INTRODUCTION TO RESEARCH IN SPEECH PATHOLOGY AND AUDIOLOGY (1)** Discussion of research methods, techniques and needs in speech pathology and audiology. Reading and understanding professional journal articles. Prerequisite: Consent of instructor.

1220.521 **DIAGNOSIS OF DISORDERS OF THE AUDITORY SYSTEM (3)** This advanced course is designed to provide graduate students in Audiology and Speech Pathology with the history, rationale and procedures for audilogically delineating disorders of the auditory system. Prerequisite: Consent of instructor.

1220.531 **PSYCHOACOUSTIC INSTRUMENTATION AND CALIBRATION (3)** This advanced course is intended to provide graduate students in Audiology and Speech Pathology with an overview of the devices which form a core of equipment for auditory investigation and some of the principles and problems which accompany their use. Prerequisite: Consent of instructor.

1220.541 **AUDIOLOGY SEMINAR — PSYCHOACOUSTICS (3)** This advanced course is intended to provide graduate students in Audiology with an opportunity to pursue indepth studies in psychoacoustics. Prerequisite: Consent of instructor.

1220.542 **AUDIOLOGY SEMINAR — BIOACOUSTICS (3)** This advanced course is intended to provide graduate students with an opportunity to pursue in-depth studies in bioacoustics. Prerequisite: Consent of instructor.

1220.543 **AUDIOLOGY SEMINAR — NEUROPHYSIOLOGY OF HEARING (3)** This advanced course is intended to provide graduate students with an opportunity to pursue in-depth studies in neurophysiology of audition. Prerequisite: Consent of instructor.

1220.544 **AUDIOLOGY SEMINAR—CURRENT TOPICS IN AUDITION (3)** This advanced course is intended to provide graduate students with an opportunity to pursue in-depth studies of current interest in audition. Prerequisite: Consent of instructor.

1220.645 **ADVANCED CLINICAL PRACTICE (2)** Experience in the University Clinic as well as externship in public schools, hospital clinics and rehabilitation settings with the speech defective. Introduction to the supervision of undergraduate trainees. Prerequisite: 1220.487 and/or professional experience.

1220.695 **GRADUATE RESEARCH PAPER IN SPEECH PATHOLOGY AND AUDIOLOGY (3)** Preparation of extensive paper dealing with a current area of research in the field or with the results of a clinical experiment. Prerequisite: Consent of department.

1220.696 **INDEPENDENT STUDY IN SPEECH PATHOLOGY AND AUDIOLOGY (3)** Preparation of extensive paper dealing with professional clinical experiences. Discussions of techniques, innovations, methods employed and recommendations for improvement. Prerequisite: Professional experience.

1220.697 **DIRECTED READINGS IN SPEECH PATHOLOGY AND AUDIOLOGY (3)** Directed Readings in selected areas of Speech, Language Pathology and Audiology in order to provide the graduate student an opportunity for a comprehensive coverage of a specially selected area within the broader area of communication disorders and to meet special needs of students. Prerequisites: Graduate Standing and Invitation of Department.

Economics

Professors: SANBORN

Associate Professors: PAUL (Chairperson), SHIN, WEINTRAB

Assistant Professors: DORN, GERMAN

The purpose of a major in economics is to help students understand the economic society in which they live. The major in economics is designed to provide preparation for careers in industry, government or teaching as well as preparation for graduate study in economics provide preparation for advanced study and to provide the foundation for careers in public administration, law, public relations, business, and research.

Departmental Office

Building — LI

Room — 118F

Phone — 321-2145

BACHELORS DEGREE . . . ECONOMICS

Requirements

Major 30

2204.101	Principles I (Micro)	(3) _____
2204.102	Principles II (Macro)	(3) _____
2204.301	Fundamental Statistics	(3) _____
2204.309	Price Theory	(3) _____
2204.323	Money & Banking	(3) _____
2204.335	Macroeconomic Theory	(3) _____

12 hours of electives

(3) _____
(3) _____
(3) _____
(3) _____

Minor 24

2204.101	Principles I (Micro)	(3) _____
2204.102	Principles II (Macro)	(3) _____
2204.323	Money & Banking	(3) _____

15 hours of electives

(3) _____
(3) _____
(3) _____
(3) _____

Six hours' credit toward the economics major or minor may be taken in the following: 0506.332, Advanced Corporate Finance; 0506.371, Principles of Transportation; 0506.481, Industrial Relations; 2206.231, Economic Geography; 2205.417, 416, Economic History of Europe; 2205.365, The Agricultural Era of America; 2205.366, The Industrial Era of America; 0701.235, Fundamentals of Computing; and 1701.377 Mathematical Models.

Economics majors are urged to take the following electives: 1501.331, Advanced Composition or 1501.334, Advanced Informal Writing and 0605.315, Business and Professional Speech.

ECONOMICS AND MATHEMATICS. Economic majors who do not plan graduate study in economics must take 1701.111, Algebra for Applications, or 1701.115, or 1701.116, or 1701.119. Also recommended is 1701.211.

Those who do plan graduate study in economics are advised to take 1701.273, Calculus I and II (and the ap-

propriate prerequisites) as well as other advanced mathematics courses.

The Economics and Mathematics Departments have established a dual major in economics and mathematics. Students who major in both economics and mathematics may count up to 12 credits of specified mathematics courses toward the 30 hours required for the economics major. Further details are in the Catalog under Mathematics.

TRANSFER CREDIT

The Economics Department accepts economic credit from other accredited colleges and universities. Transfer students must take at least 15 credits within this department.

SPECIAL PROGRAMS OF INTEREST

The department sponsors an Economics Club which presents lectures, seminars, film and other activities relating to economic analysis and problems. The department works with the Career Education Office to provide internships to qualified students. There is a minimester course which visits points of economic interest in the Baltimore area. An award is given by the department to the outstanding senior majoring in economics.

ECONOMICS COURSES (2204)

Lower Division — Undergraduate

- 2204.101 **ECONOMIC PRINCIPLES AND PROBLEMS I**
(3) How private enterprise determines what is produced, price, wages, profits. Supply and demand. Competition and monopoly. Labor unions, income distribution. Farm policy. The role of the government in our economy.
- 2204.102 **ECONOMIC PRINCIPLES AND PROBLEMS II**
(3) Inflation and unemployment — causes and remedies. Money and banking. Government spending and taxation. International trade. Prerequisite: 2204.101.
- 2204.201 **ECONOMICS OF HEALTH** (3) Study of the current structure of the delivery of health services and methods of financing health expenditures. Current issues in the economics of health. This course does not fulfill social science requirement in economics. Prerequisite: 2204.101 or consent of instructor.
- 2204.211 **ECONOMICS OF POVERTY AND DISCRIMINATION** (3) Study of the causes of poverty. How poverty and discrimination are interrelated. An analysis of existing and proposed programs to alleviate poverty and discrimination. Prerequisite: 2204.101 and 2204.102.

Upper Division — Undergraduate Only

- 2204.301 **FUNDAMENTAL STATISTICS FOR ECONOMICS I** (3) Analysis and presentation of business and economic data; frequency distribution; measures of central tendency and variability; sampling and estimation of parameters; testing of hypotheses; simple regression analysis; measuring changes in price. Prerequisites: Mathematics 1701.115 or equivalent. (Not open to freshmen. Not open to students who have taken Basic Statistics, 1701.231)
- 2204.302 **INTRODUCTION TO ECONOMETRICS** (3)
The problem of testing economic theories against empirical data: the formulation and estimation of regression model; the use of the method of multiple regression in testing the various hypotheses of economic theories; serial correlation; the problem of identifications; application of

simultaneous equation models; the use and construction of econometric models for forecasting and policymaking. Prerequisites: 2204.301 or equivalent.

- 2204.309 INTERMEDIATE PRICE THEORY (3) Determination of prices, output, wages, resource allocation. Theory of the firm. Theory of competition, monopolistic competition, oligopoly, and monopoly. Prerequisite: 2204.102.
- 2204.311 GOVERNMENT AND ECONOMIC LIFE (3) The rationale of government control and regulation of private enterprise. Maintenance of competition. Antitrust policy. Public utility regulation. Prerequisite: 2204.102.
- 2204.315 ECONOMIC DEVELOPMENT (3) Theory of economic growth. Problems and programs relating to underdeveloped countries. Prerequisite: 2204.102.
- 2204.323 MONEY AND BANKING (3) Organization and function of the money, credit and banking system of the United States; banking institutions, Federal Reserve System; the relation of money and credit to prices; foreign exchange. Prerequisite: 2204.102.
- 2204.327 INTERNATIONAL ECONOMICS (3) International trade theory; balance of payments, problems, and adjustment mechanism; foreign exchange; foreign trade policy; theory of tariffs and other trade restrictions; international monetary system and organization; trade and economic growth. Prerequisite: 2204.102.
- 2204.331 COMPARATIVE ECONOMIC SYSTEMS (3) Effects of alternative institutional arrangements on incentives and individual behavior affecting the allocation of resources. Differences between decentralized or market planning and centralized or government planning. Prerequisite: 2204.102.
- 2204.335 MACROECONOMIC THEORY (3) The overall level of output, prices, employment, interest rates, Keynesian economics. Prerequisite: 2204.102.
- 2204.337 PUBLIC FINANCE (3) Principles of taxation, government expenditure and public debt; relationship of fiscal policy to income and growth. Prerequisite: 2204.102.
- 2204.351 URBAN ECONOMICS (3) Economic bases for the existence of metropolitan areas. The economy of

the metropolitan area; its growth, income distribution, economic stability. Transportation and land use patterns. Social and other problems of metropolitan areas. Application of elementary price theory to the analysis and solution of urban issues and problems. Prerequisite: 2204.102.

- 2204.381 LABOR ECONOMICS AND LABOR RELATIONS (3) The determination of wages. Labor unions: history, structure, activities, effects. Government labor policy. Prerequisite: 2204.102.
- 2204.401 HISTORY OF ECONOMIC THOUGHT (3) Development of economic theory; eighteenth and nineteenth century classical schools. Modern economic literature on price, investment, and employment. Prerequisite: 2204.102.
- 2204.407 BUSINESS CYCLES AND FORECASTING (3) Business cycle theory; measuring economic activities; policy proposals for controlling economic fluctuations. Prerequisite: 2204.323 or 2204.335.
- 2204.451 INTRODUCTION TO MATHEMATICAL ECONOMICS (3) Intended primarily for students planning a graduate education in Economics. A study of the fundamental mathematical methods widely used in Economics: calculus and linear algebra. Emphasis is on optimization theory; economic examples are used throughout. Prerequisite: 2204.309, 2204.335, or permission of instructor and 1701.211 or 1701.274.

Upper Division — Undergraduate and Graduate

- 2204.490 INDEPENDENT STUDY (1-3) Individual and supervised study in selected areas of economics. Admission by permission of instructor.
- 2204.493 WORKSHOP ON ECONOMIC EDUCATION (3) Designed to help teachers and school administrators gain a better understanding of the economic workings of the society in which we live. Prerequisite: Consent of the instructor.
- 2204.495 PROSEMINAR ON ECONOMIC ISSUES (3) Research and writing of papers on an economic issue selected by the instructor. Prerequisites: 2204.309, 2204.323, and 2204.335.

Education

Professors: BARBOUR (*Director of Center for Applied Skills in Education*), BINKO (*Associate Director of Center for Applied Skills in Education*), BOND (*Chairperson, Early Childhood Education*), BRANDWINE, BURRIER, (*Graduate Coordinator, Secondary Education*), COLIMORE, CORNTHWAITE, COX, ELY-FLICKINGER, GUTKOSKA, COLIMORE (*Director of Reading*), HANSON, B. HAUSERMAN (*Dean, Teacher Education*), N. HAUSERMAN, JESSUP (*Chairperson, Department of Secondary Education*), KILEY, KIMSEY, KJER (*Graduate Coordinator, Early Childhood Education*), LEWIS, LINDNER, VAN NORMAN (*Director of Professional Programs*), WALL, WESLEY, WILLIAMS (*Graduate Coordinator, Elementary Education*)

Associate Professors: BELLOWS, BRODBELT, COHEN, FRIEMAN, GARNER, GEHRING (*Coordinator of Educational Technology*), HELFRICH, HOLMES (*Chairperson, Elementary Education*), FINK, LINDSAY, NICHOLAS, RAY, SUHORSKY, B. TAYLOR (*Director, Lida Lee Tall Learning Resources Center*), M. TAYLOR, TRITCH, VELDER, VLANGAS

Assistant Professors: BEHLING, BEINER, BLAKE, BOYD, CARPENTER, COHN, KARFGIN, LAWLOR, LOUDERMILK, LUDLOW, LYONS, MARTIN, MAY, O'NEILL, POLLACK, POUR, SHORES, SMITH, WATERS, WILNER (*Librarian, Lida Lee Tall Learning Resources Center*)

Instructors: BALDWIN, LEONARD, MC GILL, MORRISON, NASS, PATRICK, SLACUM

Visiting Assistant Professor: DYER (*Director of Research, Lida Lee Tall Learning Resources Center*)

(Offices of all faculty except Lida Lee Tall Staff and graduate coordinators are located in Hawkins Hall) Phone: 321-2571

LIDA LEE TALL LEARNING RESOURCES CENTER

The Lida Lee Tall Learning Resources Center (LLTLRC) is a unique and special public elementary school in the Maryland educational system, exerting an increasingly significant influence in the field of education. With a focus on educational research, Lida Lee Tall contains a Parent Lounge Program for infants and two year olds, a Day Care Center, Nursery School, Kindergarten, grades one through six, and a special unit of atypical children from the Regional Institute of Children and Adolescents.

As a department of the Education Division of Towson State University, functions, directions, and goals of the Center have been fluid, in order to provide direction for educators in the continuing challenge of educational inquiry.

The Lida Lee Tall Learning Resources Center within the practical limits of time, finances, and individual commitment attempts to meet the following goals or standards of professional excellence:

1. to provide a comprehensive focus on all aspects of reading and the language arts, as well as utilizing achievement goals in all areas of the curriculum.
2. to highlight an individualized, humanistic approach to education.
3. to preserve a philosophy which values self-direction, responsibility, and has a positive regard for the dignity and self-worth of each child.
4. to develop a unified sense of community because of small class size and the positive values of having children from a variety of cultural and socio-economic backgrounds.

5. to have experienced qualified faculty having expectations tailored to the individual needs of children and who value the importance of all aspects of the growth of children, e.g., physical, social, emotional, and intellectual.
6. to maintain and expand an interest in exploring and investigating innovative educational concepts.
7. to maintain program flexibility utilizing college resources and personnel, as well as serving the teacher education program of Towson State University.
8. to provide in-depth opportunities for learning through discovery and problem solving methods, while encouraging an open-minded attitude with reference to other educational methods and techniques.
9. to maintain an active program providing opportunities for parent involvement and participation, where responsibilities are shared.
10. to meet the responsibilities of its service role as a center for observation, demonstration, and research for all interested groups or individuals.
11. to participate in community, Lida Lee Tall and Towson State University activities as an active member of the Education Division of Towson State University.
12. to maintain a high level of professional skill and competence by actively continuing advanced professional study.

The Lida Lee Tall Learning Resources welcomes inquiries from students, faculty, or anyone interested in exploring the parameters of the educational milieu.

Educational Technology Center

A service-oriented Educational Technology Center, located on the third level of Hawkins Hall, offers faculty and students an opportunity to use the latest multi-media equipment in the design and production of self-instructional curriculum materials. The center seeks to meet the increasing need for alternative methods for carrying out instructional requirements. Consultation and advisement on all aspects of media is available to faculty and students. Inquire of Dr. Ghering, Rm. 206.

THE TEACHER EDUCATION PROGRAM

The Teacher Education program is designed to help the student mature in the varied understandings and competencies needed by the beginning teacher. Building upon the foundation of a sound general education, the student is guided toward an understanding of the child, the school, and the educative process. Teacher Education students may include in their professional program such experiences as the following: observation and participation in open space schools, as well as self-contained classrooms; utilization of micro-teaching and video-taping; and familiarization with social agencies in the school community. Increasingly, efforts are being made to individualize aspects of the student's professional program. All aspects of the programs have as their major objective the development of teachers who are broadly prepared individuals, who work well with children and youth, and who are ready and able to take intelligent action on current educational issues.

Entering the Program

Students who plan to enter one of the education programs should file an application with the Education Department Office (Room 301 HH) no later than the second semester of the sophomore year. (Those who transfer to Towson in their junior or senior year should file an application in their first semester at Towson.) Students must update their application forms regularly. To be eligible, students must be in good standing, have a college cumulative average of 2.00 plus and satisfy the requirements of the Screening-Advisement Committee, which include a speech-hearing check, proof of language skills tests, and certain academic requirements for admission to student teaching. Students should ask for the details of these requirements through their Education advisor.

Departmental Office

Building — HH
Room — 301G
Phone — 321-2571

Entering Student Teaching

All Teacher Education students must apply for student teaching on a form provided by the Director of the Center for Applied Skills in Education (Room 302 HH) during the semester preceding the student teaching experience. The Education Screening-Advisement Committee regulations regarding health record files and tubercular testing speech-hearing checks and language skills proficiency must be met. (Secondary majors must also meet academic requirements of the department involved.)

Each Teacher Education student who has reached the appropriate level of competency is placed in one of eight to ten cooperating school systems. Opportunities are available in rural or urban schools, "self-contained" or "open-space" classrooms, with individual teachers or with teams. Students may be placed in schools where methods courses are taught by a college supervisor, or individual placements are made for students who have taken methods courses on campus. Every attempt is made to secure the available placement that best meets the needs of the individual.

Differentiated student teaching may be taken by students who secure special permission from the Director of the Center for Applied Skills in Education (Room 302 HH).

Numbering of Courses

The numerical prefixes indicate teacher education programs as follows: 0823 Early Childhood Education, 0802 Elementary Education, 0803 Secondary Education as well as Dual Certification programs. Prefix 0801 designates courses which may apply to a number of programs.

Following the prefix: courses numbered 100 to 299 are termed "lower division"; and courses numbered 300 to 499 are termed "upper division" and normally have prerequisites. Some upper division courses and all courses numbered 500-699 are taken by graduate students.

For detailed information about graduate and evening programs, consult the specialized catalogs for those studies.

EARLY CHILDHOOD EDUCATION PROGRAM

Undergraduate Program

The early childhood education major is designed for students who have an interest in working with young children from birth through age eight. It is built on the premise that special capabilities and understandings are necessary to teach successfully in the preschool and primary grades.

The major in early childhood education leads to State Certification to teach nursery school, kindergarten, and primary grades 1-3. It also prepares students for positions in other programs for young children such as day care centers, parent and child centers, child life programs, private and other non-public preschools and primary programs.

To meet both the College and Maryland State Certification requirements in general education (academic work) the student must complete a total of 80 hours in the arts and sciences. The required professional education courses in early childhood education total 40 hours. The remaining hours are elected by the student to obtain the total needed for graduation. For specific details of the early childhood education program see the guide included in this section.

Early Childhood Education majors must confer with an advisor during his/her first semester at Towson State University. Upon entering the Early Childhood Education program each student must take a speech and hearing test and a language proficiency test. A passing score is needed in order to continue through the professional sequence.

In some cases, supplementary course work may be required of students who fail to demonstrate rudimentary reading and writing proficiencies.

Deviations from the program pattern for early childhood education majors are permitted only with the consent of the Chairperson of Early Childhood Education. In addition to the major in early childhood education, a student, by using his elective hours carefully, may develop a major or a minor in a subject matter area.

Students may elect courses in special education and by participating in a co-op program may become state certified in Special Education.

Alternate Major in Early Childhood Education — The Evening College

As a service to teachers who wish to pursue work toward a degree in early childhood education while they are on their teaching assignments and to other workers in various programs for young children, the Evening College offers an alternate program during evening and summers for the preparation of nursery school, kindergarten, day care center, and primary teachers which will enable them to major in early childhood education. See Evening College Catalog for further information.

EARLY CHILDHOOD EDUCATION

Major in ECE, including TSU, Departmental and State Certification Requirements Leads to Certification to Teach and Work with Children Ages Three through Eight Years.

University and Departmental Course Requirements

Art

1001.105	Art in the Culture	(3)_____
0831.373	Art for ECED (Concurrent with Block I)	(2)_____

English

1501.102	College Writing Electives	(3)_____
		(6)_____

Geography

2206.101 or 102	Elements of Geography	(3)_____
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Health

1201.101	Current Health Problems	(3)_____
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History
Electives (6)_____

Mathematics
1701.204 Concepts of Math I (3)_____
1701.205 Concepts of Math II (3)_____
1701.321 Teaching Math in ECE (2)_____
(Concurrent with Block II)

Music
1005.101 Intro. to Music Literature (3)_____
0832.307 Teaching Music in Elem. Sch. (2)_____
(Concurrent with Block I)

Philosophy or Modern Language
Elective (3)_____

Physical Education
Physical Ed. Activity (2)_____
0835.324 Teaching PHEC in Elem. Sch. (2)_____
(Concurrent with Block I)

Political Science OR Anthropology OR Economics
Elective (3)_____

Psychology
2001.101 General Psychology (3)_____
2001.201 Educational Psychology (3)_____
2001.211 Child Psychology (3)_____

Science
0401.101 Contemporary General Biology (4)_____
1901.101 Physical Science I (4)_____
0401.303 Life Science OR
1901.303 Earth Space Science (3)_____
0834.371 Teaching Science in ECE (2)_____
(Concurrent with Block I)

Sociology
2208.101 Introduction to Sociology (3)_____

Speech
1220.105 Speech and Language Develop. (3)_____

Writing Course
Elective (3)_____
TOTAL GENERAL EDUCATION (80)_____

NOTE: To meet certification requirements, students must have 80 semester hours in academic subjects (Arts and Sciences).

TOTAL NUMBER HOURS REQUIRED IN ACADEMIC SUBJECTS AT LEAST 80

Academic Electives

Select other courses in Sociology, Psychology, Music, Art, Speech and Drama, Health, Foreign Language, Political Science, Economics, Philosophy, Geography, Government, Science, History, and Theatre.

Professional Teacher Education Courses — Major in Early Childhood Education Requirements

0823.101 Young Child As A Learner (3)_____
(Taken before Block I)
0823.341 Professional Block I (4)_____
(Junior standing only)
0823.360 Readiness for Reading (2)_____
(Concurrent with Block I)
0823.342 Professional Block II (4)_____
0823.361 Teaching Reading in ECE (3)_____
(Concurrent with Block II)
0823.343 Professional Block III (2)_____
(Concurrent with Student Teach.)

0823.351-352 Student Teaching
8 weeks in Preschool (5)_____
8 weeks in Primary Grades (5)_____
0801.401 Foundations of Education (3)_____
3 Early Childhood Electives (9)_____

TOTAL NUMBER PROFESSIONAL REQUIREMENTS FOR MAJOR IN EARLY CHILDHOOD EDUCATION AT LEAST (40)_____

Approved Elective Courses for Early Childhood Education Majors

0823.301, Mat. & Exp. for Young Child (3); 0823.355, Differentiated Stud. Tch. (1-8); 0823.411, Parents & Teachers: Partners in ECE (3); 0823.415, Day Care Center (3); 0823.417, Early Identification of Learning Disabilities (3); 0823.421, Problems in ECE (3); 0834.425, Young Black Child in Multicultural Society (3); 0823.495, Independent Study; ECE (1-4); 0801.417, Children's Literature (3); 0808.411, The Hospitalized Child (3); 0808.441, Characteristics of Handicapped Children (3); 0808.497, Practicum: Children with Special Needs (3-6).

EARLY CHILDHOOD EDUCATION COURSES (0823)

Undergraduate

0823.101 THE YOUNG CHILD AS A LEARNER (3)
Introduction to the developing child and educational programs available for young children. Focuses primarily on the child himself.

0823.102 THE CURRICULUM FOR YOUNG CHILDREN (3) Curriculum content and methods of teaching in programs for young children. Prerequisite: 0823.101 or approval of Early Childhood Education Department.

0823.121 LABORATORY EXPERIENCES IN PROGRAMS FOR YOUNG CHILDREN (3) Practical application of educational theory through observation of and participation with young children in classroom situations. Concurrent with 0823.102. Prerequisite: 0823.101 or approval of Early Childhood Education Department.

0823.301 MATERIALS AND EXPERIENCES FOR THE YOUNG CHILD (3) Stimulating the intellectual, physical, social, and emotional development of young children through the use of varied instructional materials and activities. Prerequisite: 0823.101 or 0823.102 or approval of Early Childhood Education Department.

0823.341 PROFESSIONAL BLOCK I: THE INTEGRATED CURRICULUM (4) Interdepartmental instruction by specialists in art, music, physical education and science with emphasis on the personal development of the becoming teacher and coordinated by a faculty member from Early Childhood Education program. Classroom participation. Prerequisite: Open only to Early Childhood Education Majors. 2001.201 and 2001.211 or approval of Early Childhood Education Department.

0823.342 PROFESSIONAL BLOCK II: CURRICULUM ANALYSIS AND METHODS OF INSTRUCTION (4) Emphasis on objectives, materials, and methods of teaching the language arts, and social studies in programs for young children. Participation one day weekly in an assigned classroom for young children. Prerequisite: Open only to Early Childhood Education Majors. 0823.341 or its equivalent.

0823.343 PROFESSIONAL BLOCK III: CURRICULUM CONCEPTS IN EARLY CHILDHOOD (2) Parallels student teaching and is concerned with problems and interests of the student teacher. Prerequisite: 0823.341 and 0823.342 or equivalent. Open only to Early Childhood Education Majors.

0823.351, 352 STUDENT TEACHING IN EARLY CHILDHOOD (PRIMARY, PRESCHOOL) (10) Assignment

in nursery school, kindergarten, and primary grades or other types of programs for young children under expert guidance. Two terms of approximately 8 weeks on two different age levels, four consecutive days weekly. Concurrent with 0823.343.

0823.355 **DIFFERENTIATED STUDENT TEACHING IN EARLY CHILDHOOD (1-8)** Student teaching experiences in addition to those in required student teaching courses (0823.351, 0823.352), according to needs and interests of the student. Experiences may be in public schools, or in centers for young children such as Day Care Centers, Parent-Child or Infant Centers, hospitals, or other special programs in early childhood education. Prerequisite: Approval of student's adviser, Chairperson of Early Childhood Education, and Director of Laboratory Experiences.

0823.360 **READINESS FOR READING (2-3)** Concepts of readiness for reading in Early Childhood Education with emphasis upon the physiological, sociological, cognitive and affective factors influencing readiness and skill development for teaching of young children. Prerequisites: Junior standing, major in ECED. Day students must take concurrently with Block I (0823.341).

0823.361 **TEACHING READING IN EARLY CHILDHOOD EDUCATION (3)** Teaching reading in early childhood education with special emphasis on early learning related to the reading process and the teaching of beginning reading. Critical examination of content, procedures, materials in programs for nursery school through third grade. Prerequisite: 6 hours of Early Childhood or approval of Early Childhood Education Department.

0823.403 **THE CURRICULUM IN PRIMARY EDUCATION (3)** The child, curriculum content, methods and materials of teaching, and program organization in the primary school years. Evenings and Summers only. Prerequisite: For uncertified teachers only. 6 hours of Early Childhood Education. (G)

0823.411 **PARENTS AND TEACHERS: PARTNERS IN EARLY CHILDHOOD EDUCATION (3)** The development of a rationale for improved parent-teacher relationships in early childhood education programs. The role of para-professionals, specialists, and volunteers. Observation, participation, home and school visits by teachers and parents functioning as a team. Prerequisites: Six hours of Early Childhood Education or approval of Early Childhood Education Department. (G)

0823.415 **THE DAY CARE CENTER (3)** An interdisciplinary course designed to prepare day care personnel. Resource persons from related agencies will participate. Topics include purposes of day care, problems of organization, administration and supervision, records, programs, community interaction, and parent relations. Field trips and observation of day care centers. Prerequisites: 6 hours of Early Childhood Education or approval of Early Childhood Education Department. (G)

0823.417 **EARLY IDENTIFICATION OF LEARNING DISABILITIES (3)** Survey of the nature of learning disabilities in the young child; emphasis on early identification, theoretical approaches, major disability categories; survey of remedial principles. Prerequisites: 6 hours of Psychology and 6 hours of Early Childhood or approval of Early Childhood Education Department. (G)

0823.419 **MEASUREMENT AND EVALUATION IN EARLY CHILDHOOD EDUCATION (3)** Backgrounds and principles of assessment in early childhood education. Statistical concepts. Types of instruments and methods for evaluating growth and achievement of young children. Prerequisite: 6 hours of psychology and 6 hours of Early Childhood Education or approval of Early Childhood Education Department. (G)

0823.421 **PROBLEMS IN EARLY CHILDHOOD EDUCATION (3)** Research findings used as a basis for program planning in nursery school, kindergarten and primary grades; current trends and issues are considered. Prerequisite: student teaching and/or teaching experience in preschool or primary grades; junior standing; or approval of Early Childhood Education Department. (G)

0823.423 **LABORATORY EXPERIENCES IN EARLY CHILDHOOD EDUCATION (3)** Classroom experiences with children in preschool and primary grades in a variety of teaching-learning situations. Analysis of observations in light of current research. Concurrent with 0823.421. Summers only. Prerequisites: junior standing and approval of Early Childhood Education Department. (G)

0823.425 (25.425) **THE YOUNG BLACK CHILD IN A MULTICULTURAL SOCIETY (3)** Exploration of the influences of caste, class and culture on the development of young children, with implications for Early Childhood Education. Focus on the young black child. Prerequisites: 6 hours psychology and/or sociology, 6 hours of ECED or approval of Early Childhood Education Department. (G)

0823.470-489 **SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION: (Topic to be named) (1-3)** In-depth study of a selected topic in Early Childhood Education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Graduate credit only with approval of the graduate program coordinator. Each topic may be taken as a separate course.

0823.494 **TRAVEL AND STUDY: EARLY CHILDHOOD EDUCATION (1-6)** A field study, including cultural tours in selected foreign countries, of current Early Childhood Education programs, facilities, and trends. Lectures, observations, and personal interactions. Required participation in planned educational activities and a follow-up paper. Prerequisites: Junior, senior, graduate standing, or consent of the department chairperson. Consent of graduate program coordinator required for graduate degree credit.

0823.495 **INDEPENDENT STUDY IN EDUCATION: EARLY CHILDHOOD (1-4)** An opportunity for especially qualified students to undertake research problems or study projects relevant to their interest and training under the direction of a staff member. Prerequisite: approval of program Chairperson. Graduate credit by consent of graduate program coordinator only.

0823.496 **DIRECTED READING: EARLY CHILDHOOD EDUCATION (1-4)** Independent reading in selected areas of Early Childhood Education in order to provide for the individual a comprehensive coverage or to meet special needs. By invitation of the Department to major students. Graduate credit by consent of graduate program coordinator only. (G)

G—may be available for graduate credit. See graduate bulletin.

Graduate Only

0823.509 **GROWTH AND DEVELOPMENT OF YOUNG CHILDREN (3)** Study of findings of current research in growth and development of young children; methods of studying and evaluating behavior; implications of case study data for curriculum improvement. Prerequisite: Non-majors secure approval of Early Childhood Education Department.

0823.513 **INFANTS AND CHILDREN UNDER THREE (3)** Nature of the infant and the very young child. Types of programs providing care for infants and children under three. Focus on developmental needs. Organization, cur-

riculum, and methods of working with parents and children. Examination of alternative programs. Observation. Utilization of resource persons from allied agencies. Prerequisites: 2001.511 and/or 0823.509 or approval of Early Childhood Education Department.

0823.515 DAY CARE ADMINISTRATION AND SUPERVISION (3) Theory and practice of day care center operations. The director's role as related to such topics as: financing, staff selection, training, program planning, liaison with agencies, community relations, contract negotiation, evaluation and supervision of staff. Prerequisite: 12 credits in ECED and 2 years employment in Child Care.

0823.517 ADVANCED LEARNING DISABILITIES (3) Presents recent advances in theory, etiology and identification; use of drugs, genetic, maturational, perceptual-cognitive factors, neurological implications—as related to specific remediation; case studies and clinical observations. Course offered in Spring. Prerequisite: 6 hours ECED (3 hrs. must be 0823.417 or permission), 6 hours Psychology (Child and Educational Psych.), or approval of Early Childhood Education Department.

0823.521 READING IN EARLY CHILDHOOD EDUCATION—ADVANCED (3) Emphasis on contemporary issues; advanced interpretative and critical evaluations of research in reading instruction in light of basic needs, developmental levels, and individual differences in young children. Prerequisites: Undergraduate course in reading and approval of Early Childhood Education Department.

0823.553 PERCEPTUAL AND COGNITIVE DEVELOPMENT OF YOUNG CHILDREN (3) Survey of significant research affecting the theory and programs of education for children ages three to eight years. Prerequisites: 2001.511 and/or 0823.509 and approval of Early Childhood Education Department.

0823.573 SEMINAR IN EARLY CHILDHOOD EDUCATION (3) Seminar approach to current practices and trends in curriculum, materials, methods, and organization of educational programs for children ages birth through eight years. A seminar paper is required. Prerequisite: Nine hours of graduate work in Early Childhood Education and 0801.691.

0823.599 MASTERS THESIS IN EARLY CHILDHOOD EDUCATION

0823.617 INTERNSHIP IN LEARNING DISABILITIES (3-6) This course is the third of a three semester sequence in learning disabilities designed to give students an opportunity to teach/work in an educational/remedial/therapeutic setting for learning disabled children. Special education centers and private institutions utilizing a multi-discipline team approach will be placement locations. Prerequisite: Graduate standing; 0823.417 (or equivalent); 0823.517 (or equivalent) and 12 hours Psychology.

0823.647 THE TEACHING PROCESS: EARLY CHILDHOOD EDUCATION (3) Study of recent theories, methods, and findings in research on the teaching process. Analysis of teaching behaviors and exploration of teaching strategies in educational programs for young children. Prerequisite: Teaching experience 0801.501 or approval of Early Childhood Education Department.

0823.670-674 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION: (Topic to be named) (1-3) In-depth study of a selected topic in Education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Approval by the appropriate graduate coordinator is required. Each topic may be taken as a separate course. Prerequisite: Will vary with each topic; approval of graduate coordinator.

Master of Education in Early Childhood Education

For detailed information regarding the Master of Education in Early Childhood Education see the Graduate Studies Catalog.

ELEMENTARY EDUCATION PROGRAM

Undergraduate Program

The major in elementary education leads to certification to teach grades 1 through 6, grades 1 through 8 in the middle schools organization, and grade 9 provided content requirements for secondary certification are met. The program is designed to integrate classroom and laboratory experiences in such ways as to prepare students for beginning teaching in public schools.

In meeting the general course requirements and certification requirements the student must complete at least 80 hours in arts and sciences; at least 36 hours in professional education, and electives, to make a total of at least 126 semester hours of "C" or better work. A checklist follows.

Theory and practice are combined to provide a thorough preparation for teaching, and such preparation must be demonstrated prior to student teaching. Students are required to consult with their elementary education advisors concerning the proficiency tests to be taken, and the Professional Folder to be maintained. In many cases, supplementary course work may be required of students who fail to demonstrate rudimentary reading and writing proficiencies.

A concentration of related courses or a major in arts or sciences is desirable for the student in elementary education.

Deviations from the program pattern for elementary majors (i.e. in content or sequence of professional education courses) are permitted only with the written consent of the Chairperson of Elementary Education.

Elementary Education Major with Mathematics Minor: Through a cooperative program of the Elementary Education and Mathematics Department, students can use a middle school student teaching experience as a route to elementary certification with a mathematics minor. Interested students should consult with the chairpersons of the Elementary Education and Mathematics Departments as early in their college program as possible.

Elementary Majors may arrange programs with minors in other selected areas by arrangement with the chairperson of Elementary Education and the chairperson of the other department concerned. A Geography minor, for example, has been fully developed.

The major in Elementary Education, including Towson State University General Education, Departmental and State Certification requirements, leading to certification to teach children, ages six through thirteen years of age.

University and Departmental Requirements:

Courses starred (*) should be completed before Student Teaching. 126 semester hours of C or better work, including

ARTS AND SCIENCES (at least 80 hours)

Humanities and Fine Arts

ART

*1001. Elective

(3)_____

✓0831.371 Art and the Child¹

(2)_____

[Note: Part of Curriculum I Semester]

MUSIC

- *0832.233 Music Fundamentals (2) _____
✓0832.307 Tchg. Music/Elem. Sch.¹ (2) _____
(Note: Part of Curriculum I Semester)

ENGLISH — 12 hours

- *1501.102 College Writing (3) _____
*1501. Elective (3) _____
*1501. Elective (3) _____
1501. Elective (3) _____

¹ The student must take prerequisite courses in Art, Music, and/or Physical Education for the two chosen. The third methods course may be taken as an elective after Student Teaching.

HISTORY — 9 hours

- *2205. Elective (3) _____
*2205. Elective (3) _____
2205. Elective (3) _____

PHILOSOPHY OR MODERN LANGUAGE — 3 hours

1509. Elective or
110 . Elective (3) _____

(Note: Two semesters of a modern language must be taken to count for credit.)

Natural Sciences

BIOLOGY

- *0401.101 Contemporary General Biology (4) _____
0401.303 Life Science/Elem. Sch. (3) _____
(Note: Part of Curriculum I Semester)

PHYSICAL SCIENCES

- *1901.101 Physical Science I (4) _____
1901.303 Earth-Space Sci./Childhood Ed. (3) _____
(Note: Part of Creative Expression/Curriculum I Semester)

MATHEMATICS

- *1701.204 Concepts of Math./Elem. Tchrs. I (3) _____
*1701.205 Concepts of Math./Elem. Tchrs. II (3) _____
*1701.323 Tchg. Math/Elem. Sch. (3) _____

Social and Behavioral Sciences

GEOGRAPHY

- *2206.101 or 102 Elements/Geog. I or II (3) _____

PSYCHOLOGY

- *2001.101 General Psychology (3) _____
*2001.201 Educ. Psychology (3) _____

SELECT ANY TWO COURSES

- Anthropology
2202. Elective
Economics
2204. Elective (3) _____
Political Science
2207. Elective
Sociology
2208. Elective (3) _____

Required Experiences

PHYSICAL EDUCATION

- *0835.281 P.E./ELED Students I (1) _____
*0835.282 P.E./ELED Students II (1) _____
(Note: 0835.281 and 282 are prerequisites for 0835.324)
✓0835.324 Tchg. P.E./Elem. Sch.¹ (2) _____
(Note: Part of Curriculum I Semester)

ENGLISH — see above

- *1501.102 College Writing

COLLEGE LEVEL WRITING COURSE

- *0801.301 Writing and Communication Skills for Teachers (3) _____

Student Option Experiences

HEALTH

- *1201.101 Current Health Problems (3) _____
TOTAL: 79 hours

PROFESSIONAL EDUCATION (at least 34 hours)

- *0801.101 Careers in Education (2) _____
*0802.363 Field Studies for Elem. Tea. Curriculum I Semester (2) _____
*0802.311 Child/Elem. Sch. Cur. } concurrent (3) _____
*0802.323 Tchg. Rdng./Elem. Sch. } concurrent (3) _____
or Cur. I Semester/Creative Expression
*0802.305 Creative Expression (8) _____

(Note: Consists of courses checked (✓) under Arts/Sciences)

- Curriculum II Semester
0802.462 Elem. Cur. II } concurrent (6) _____
0802.497 Student Teaching } concurrent (10) _____

(Note: Elem. Cur. II = Rdng., S.S., L.A. methods)

- 0801.315 Ed. Meas./Clrm. Tchrs. (2) _____
0801.417 Child. Lit. (3) _____
0801.401 Foundations of Ed. (3) _____

(Note: Prerequisite: Student Teaching)

TOTAL: 34 hours

(Note: Schedules for the Curriculum I and II Semesters will be provided by the Department.)

ELECTIVES (at least 13 hours)

Arts and Sciences Elective

- (1-3) _____
Any Electives (Arts and Sciences or Professional Education. A minor or a concentration is desirable.)
(3) _____
(3) _____
(3) _____
(3) _____

ELEMENTARY EDUCATION COURSES (0802)

Undergraduate Courses

- 0831.371 ART AND THE CHILD (2-3) (See Art Dept. listings.)
0831.471 ADVANCED ART EDUCATION (3) (See Art Dept. Listings.) (G)
0831.475 TEACHING ART IN THE ELEMENTARY SCHOOL (2) (See Art Dept. listings.)
0401.303 LIFE SCIENCE IN THE ELEMENTARY SCHOOL (3) (See Biol. Dept. listings.)
1701.204 TEACHING MATHEMATICS IN ELEMENTARY SCHOOL (2 or 3) (See Math. Dept. listings.)
1701.325 TEACHING MATHEMATICS IN THE MIDDLE SCHOOL (3) (See Math. Dept. Listings.)
1701.427 READINGS IN MATHEMATICS EDUCATION FOR THE ELEMENTARY SCHOOL TEACHER (1-3) (See Math. Dept. Listings.)
0832.307 TEACHING MUSIC IN THE ELEMENTARY SCHOOLS (2, 3) (See Music Dept. listings.)
0835.324 TEACHING PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL (2) (See Phys. Educ. Dept. Listings.)

- 1901.303 EARTH-SPACE SCIENCE IN CHILDHOOD EDUCATION (3) (See Physics Dept. Listings.)
- 0834.376 TEACHING SCIENCE IN THE ELEMENTARY SCHOOL (3) Significance of science for the elementary school child; its contribution toward his development; criteria for selecting science experiences for children. Open only to students in the Student Teaching Block.
- 0834.488 AEROSPACE EDUCATION WORKSHOP (3) In cooperation with CAP, USAF, and NASA. A fund of general knowledge about aviation and space exploration. Teaching materials, resources, and field experiences. Usually a weekend at Florida's Cape Kennedy Space Center and other day-long tours TBA. For K-12 teachers, supervisors, administrators and students of teaching. LAB FEE \$15.00 which includes travel charges. Three weeks. Summers only.
- 1506.375 SPEECH IN THE ELEMENTARY SCHOOL (3) (See Communications Dept. Listings.)
- 0802.305 (26.305) CREATIVE EXPRESSION (8) Experiences in planning and teaching an integrated and creative program of art, music and physical education activities at the elementary level. To be taken concurrent with Curriculum I. Prerequisite: Art, two or more hours: Music 0832.233; Ph. Ed. 0835.281, 0835.282.
- 0802.311 CHILD AND THE ELEMENTARY SCHOOL CURRICULUM (3) The child, the school and community, and the curriculum of the modern elementary school are interpreted in terms of the roles and functions of the public school in a democratic society. Prerequisite: 2001.101, 2001.201.
- 0802.321 TEACHING LANGUAGE ARTS IN THE ELEMENTARY SCHOOL (3) Language needs and abilities of children. Development of effective language skills with emphasis on reading. Evenings and summers only; part of Curriculum II in day program. Prerequisite: 2001.101, 2001.201.
- 0802.323 TEACHING READING IN THE ELEMENTARY SCHOOL (3) Introduction to reading in the elementary school. A survey of varied approaches with emphasis on skills development. Prerequisite: 2001.101, 2001.201.
- 0802.363 FIELD STUDIES FOR ELEMENTARY TEACHING (2) Initial experiences in teaching and learning activities in specified settings will be provided. Students will study school activities which are directly related to classroom instruction as well as community related activities. Prerequisite: One course in education or 2001.201 or consent of instructor.
- 0802.365 TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL (3) Locating, organizing, synthesizing, and interpreting fundamental social information. Evenings and summers only; part of Curriculum II in day program.
- 0802.427 READING AND OTHER LANGUAGE ARTS IN THE ELEMENTARY SCHOOL — ADVANCED (3) Application of theory and research to the teaching of reading and other language arts. Prerequisite: 0802.321, 0802.323, or 0802.462. (G)
- 0802.429 METHODS AND PRINCIPLES OF READING INSTRUCTION — ADVANCED (3) Principles involved in building a developmental reading program; prevention of reading difficulties; methods of remedial reading. Prerequisite: 0802.323 or 0802.462. (G)
- 0802.431 DIAGNOSIS AND PRESCRIPTION FOR LEARNING DIFFICULTIES (3) Factors related to learning difficulties in the elementary and middle school; use of formal and informal tests and procedures for diagnosing learning difficulties; materials and methods for remediation of learning difficulties in the areas of oral language, written language, reading, spelling, handwriting, and mathematics. Students must work with one child as a requirement of the course. Prerequisites: Student teaching and/or classroom teaching experience, and six hours of psychology. (G)
- 0802.433 EDUCATING THE GIFTED (3) Identification of gifted students; curricular adaptations and school programs; stimulating creativity and problem-solving strategies; meeting needs of gifted students in elementary and middle schools. Assignments include school visits, lesson plan design and readings on special topics. Prerequisite: Student teaching or teaching experience; or consent of instructor. (G)
- 0802.435 PSYCHOLINGUISTICS AND READING INSTRUCTION (3) Investigation of psycholinguistic research. Method of applying psycholinguistic diagnosis. Development of instructional strategies based on diagnostic findings. Employment of syntactic measures of readability. Limited work with one child is required. Prerequisite: One course in reading instruction. (G)
- 0802.441 CURRICULUM DEVELOPMENT IN THE ELEMENTARY SCHOOL (3) The child and his curriculum. The teacher's role in curriculum as a process. Principles and philosophies of curriculum development. Objectives, practices, materials, and evaluation trends. Prerequisite: 0802.497. (G)
- 0802.451 IMPLEMENTATION OF CAREER EDUCATION IN THE ELEMENTARY SCHOOL (3) An examination of the rationale and goals of career education. Focuses upon methods and classroom activities for integrating career education with the teaching of basic skills. Includes evaluation of materials and resources for instruction. Prerequisites: Student teaching or teaching experience. (G)
- 0802.457 ENGLISH FOR THE NON-ENGLISH SPEAKING CHILD (3) Methods of teaching English to elementary school children whose native tongue is another language. Prerequisites: Elementary language arts methods course or elementary teaching experiences or consent of instructor.
- 0802.458 PRACTICUM: ENGLISH FOR THE NON-ENGLISH SPEAKING CHILD (1-4) Supervised practical experience in teaching English to elementary school children whose native tongue is another language. Prerequisite: 0802.457 and student teaching or teaching experience.
- 0802.462 ELEMENTARY CURRICULUM II (6) Integration of language arts (spelling, writing, literature, listening, usage, vocabulary development), social studies (nature of groups, research units, history, economics, government, sociology), and advanced reading instruction. To be taken during student teaching semester. Prerequisites: Elementary Curriculum I and approval of Education Department.
- 0802.470-489 SPECIAL TOPICS IN ELEMENTARY EDUCATION: (Topic to be named) (1-3) In-depth study of a selected topic in Elementary Education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Graduate credit only with approval of the graduate coordinator. Each topic may be taken as a separate course. (G)
- 0802.494 TRAVEL AND STUDY: ELEMENTARY EDUCATION (1-6) Study abroad of educational facilities, programs, or practices, or selected projects in Elementary Education topics. By special arrangement with program chairperson and sponsoring instructors. Consent of graduate program coordinator required for graduate degree credit.

0802.495 INDEPENDENT STUDY IN EDUCATION: ELEMENTARY (1-4) An opportunity for especially qualified students to undertake research problems or study projects relevant to their interest and training under the direction of a staff member. Prerequisite: Approval of appropriate program Chairperson. Graduate credit by consent of Graduate Program Coordinator only. (G)

0802.496 DIRECTED READINGS: ELEMENTARY EDUCATION (1-4) Independent reading in selected areas of Elementary Education in order to provide for the individual a comprehensive coverage or to meet special needs. By invitation of the Department to major students. Graduate credit by consent of Graduate Program Coordinator. (G)

0802.497 STUDENT TEACHING IN ELEMENTARY SCHOOL (6-10) Ten to twelve weeks, full time, in public school classrooms under the guidance of master teachers. Conferences with the college supervisor. Prerequisite: Approval of Education Department. (Variable credit in Art, Music, and Physical Education.)

0802.498 DIFFERENTIATED STUDENT TEACHING — ELEMENTARY (1-8) Student teaching experiences in addition to those in 0802.497 or student teaching in special subject areas, according to needs and interests of the student. Prerequisite: Consent of the Director of Laboratory Experiences.

(G) May be available for graduate credit. See Graduate Catalog.

Graduate Only

0802.531 DIAGNOSIS AND PRESCRIPTION FOR LEARNING DIFFICULTIES — ADVANCED (3) Topics include the diagnostic teaching cycle; team conferencing; identification of learning problems and individual learning style and the effects of mainstreaming. Included will be teaching strategies to improve: auditory, visual, and verbal skill; cognitive skills related to arithmetic; reading comprehension; and classroom behavior. Students must tutor one child as a requirement of the course. Prerequisites: 0801.425 or 0802.431 or consent of instructor.

1701.521 SEMINAR IN TEACHING ARITHMETIC (3) (See Math. Dept. Listings.)

0834.585 SEMINAR IN ELEMENTARY SCHOOL SCIENCE (3) Seminar approach to current practices and trends in organizing, teaching and improving programs in elementary school science. Each student conducts a limited research on some aspect of science teaching. Prerequisite: At least three basic science courses and elementary teaching experience.

0802.585 SEMINAR IN ELEMENTARY SCHOOL SOCIAL STUDIES (3) Trends, content, issues, and materials involved in the teaching of social studies. Each student will be expected to explore in depth one aspect of the subject and present his/her findings to the group.

0802.616 THE ADMINISTRATION OF THE ELEMENTARY SCHOOL (3) Analysis of principles of elementary school administration, the administrator's roles and responsibilities, human relations and personnel management, public relations, management of the school unit and curriculum. Prerequisite: Three years teaching experience, teacher certification and nine hours of graduate credit.

0802.647 THE TEACHING PROCESS: ELEMENTARY EDUCATION (3) Study of recent theories, methods, and findings in research on the teaching process. Analysis of teaching behaviors and exploration of teaching strategies in educational programs for elementary children. Prerequisite: Teaching experience, and 2001.511.

0802.648 INDIVIDUALIZING LEARNING IN THE ELEMENTARY SCHOOL (3) Consideration is to be given to the theory of individualizing learning and to the related restructuring of organizational patterns. Emphasis is to be placed on behavioral objectives, learning centers, listening stations, task folders, and media centers. A project is required. Prerequisites: Certification and Teaching Experience or Consent of Instructor.

0802.665 THEORETICAL AND PRACTICAL BASES OF CURRICULUM DEVELOPMENT IN THE ELEMENTARY SCHOOL (3) History of curriculum development in the elementary school; basic considerations affecting curriculum development; patterns of organization; objectives, practices and evaluation; problems in curriculum development. Prerequisite: Consent of program coordinator.

0802.670-674 SPECIAL TOPICS IN ELEMENTARY EDUCATION: (Topic to be named) (1-3) In-depth study of a selected topic in Education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Approval by the appropriate graduate coordinator is required. Each topic may be taken as a separate course. Prerequisite: Will vary with each topic; approval of graduate coordinator.

0802.675 SEMINAR IN ELEMENTARY EDUCATION (3) Scientific investigation of selected aspects of education with emphasis on classroom application. A paper involving description and evaluation of the investigation will be required. Prerequisite: 30 hours of graduate work including 0801.691.

0802.681 SEMINAR IN ELEMENTARY SUPERVISION (3) Role of the supervisor; supervisory practices and techniques. Students may concentrate in areas related to their professional interests. Prerequisite: Nine hours of graduate work.

0802.699 MASTERS THESIS IN ELEMENTARY EDUCATION

Master of Education in Elementary Education

For detailed information regarding the Master of Education in Elementary Education see the Bulletin of Graduate Studies.

Master of Education in Reading

The Master of Education Degree Program in Reading is designed to offer experiences that will improve the teaching of reading at all levels from kindergarten through college. Specifically, the program seeks to offer courses in reading for teachers and administrators who are interested in improving their knowledge of reading and to prepare reading clinicians to teach developmental, corrective, and remedial reading. Furthermore, the program is designed to prepare reading specialists who will be capable of filling leadership roles in reading improvement programs in schools and clinics.

The Course Requirement for the Degree include 0801.621, 0801.623, 0801.625 and 0801.629 and are listed under the prefix 0801 "Other Education Courses." Detailed information regarding the program is given in the Catalog of Graduate Studies.

SECONDARY EDUCATION AND DUAL CERTIFICATION PROGRAMS

The programs of education for junior, middle and senior high teachers are designed to bring about a close integration between teaching methods and the practical experi-

ence of observation and student teaching. STUDENTS ARE REQUIRED TO FILE A DECLARATION OF INTENTION FORM AND TO BE ASSIGNED A SECONDARY EDUCATION ADVISOR. THE SECONDARY EDUCATION ADVISOR IS IN ADDITION TO AN ADVISOR IN THE MAJOR.

After introductory courses in the nature of today's schools and their students, the prospective secondary teacher enters the student teaching semester. Methods, philosophy, techniques, and practice are combined to provide a thorough preparation for teaching, and such preparation must be demonstrated prior to student teaching. Students are required to take prescribed proficiency tests in English, speech and hearing. These are usually administered during the Principles and/or Survey courses. A student not so tested is responsible for arranging the testing program with his/her education advisor. In some cases, supplementary course work may be required of students who fail to demonstrate adequate reading and writing proficiencies. Students will consult with education advisors to obtain results of the above tests and where necessary to plan for appropriate remediation. Students must secure approval for student teaching from the Secondary Education Department; it is contingent upon successful completion of the required courses and demonstration of acceptable competencies in the tested areas. The student teaching semester is followed by a course in the sociological, philosophical, psychological, and historical foundations of education.

There is no single "Secondary Education" major. Rather, a student must satisfy the general course requirements of the college and complete a major in a department whose subject area is among those for which a secondary school teaching certificate may be issued (see 0803.398 for major areas in which student teaching is offered). In addition to this major, the following courses are required in Teacher Education:

PROFESSIONAL COURSES REQUIRED:

The specific college level writing course required in Group IV, General University Requirements, effective for students entering degree candidacy September 1977, will be announced in future University publications.

Professional Courses Required	Sem. Hrs.	When Taken Year Semester
0801.101 Careers in Education	2	I or II 1 or 2
2001.201 Educational Psychology (Prerequisite: 2001.101)	3	II 1 or 2
0803.341 Principles of Secondary Education (Prerequisite: 2001.201 — taken semester prior to methods)	3	III 1 or 2
Note: Certain K-12 or "Dual Certification" majors such as Art, Music, and P.E., take 0803.319 Survey of Educational Programs in place of 0803.341.		
0803.360 Teaching Reading in the Secondary School (Required of English and Social Science majors — recommended to others. Taken concurrently with Principles of Secondary Education.)	3	III 1 or 2
0000.000 Methods of Teaching Major Subject (Taken semester prior to student teaching) (Science majors take 3 hours prior and 2 hours during.)	3	III-2 or IV-1 or 2
0601.269 Educational Media Laboratory	1	III-2 or IV-1 or 2
0803.398 Student Teaching (A minimum grade of "C" in Principles of Secondary Education or Survey of Educational Programs, and in teaching methods is one of the prerequisites. Students must also satisfy academic requirements of the departments concerned.)	10	III-2 or IV-1 or 2
0801.401 Foundations of Education (Prerequisite: Student Teaching)	3	IV 1 or 2

The following Majors are recognized for Secondary Certification. The listings here are general guides only and subject to revision by the departments concerned. Students must check with the appropriate department to be sure all details of the requirements for the major are fulfilled. It is also the student's responsibility to see that he/she is meeting the State Requirements under which he/she wishes certification.

Biology

Required in Major (30 hrs.): 101 Fundamentals of Biology (4); 105 General Botany (4); 109 Functional Anatomy of Vertebrates (4); 331 Field and Systematic Botany (4); 351 Field and Systematic Vertebrate Zoology (4); 401 Genetics (4); plus 6 semester hours of electives from departmental offerings.

Required in Related Subjects (23 hrs.): 101-102 General Chemistry (8); 231 Organic Chemistry (4); 211-212 General Physics (8); 115 Mathematics I (3).

Business

Towson State University Department of Secondary Education does not offer a major in business education, but in cooperation with Morgan State University, it is possible for BUAD majors to become certified as business education teachers (socioeconomic business subjects or vocational skill courses depending upon program of studies). Students must meet the general course requirements of Towson State University as well as requirements for a BUAD major as outlined by the Department of Business Administration and complete the professional courses required by the Maryland State Department of Education offered through the TSU Department of Secondary Education and Morgan State University. See Chairperson of Secondary Education for further details before beginning course work with this intention.

Chemistry

Required in major (41 hours): 1905.101, General Chemistry I (4), 1905.102, General Chemistry II (4); 1905.211, Quantitative Analytical Chemistry (5); 1905.411, Instrumental Methods of Analysis (5); 1905.331 and 1905.332, Organic Chemistry I and II (5, 5); 1905.341, Physical Chemistry — Thermodynamics (3); 1905.342, Physical Chemistry — Structure and Kinetics (3); 1905.343 and 1905.344, Physical Chemistry Laboratory I and II (1, 1); 1905.422, Inorganic Chemistry (4); and 1905.401, Seminar (1).

Required in related subjects (at least 16 credits): Physics 1902.221 and 1902.222, General Physics I and II (4, 4) (Physics 1902.211 and 212 can be substituted for 1902.221 and 1902.222, but this is not recommended); Mathematics through Math 1701.273 and 1701.274, Calculus I and II (4, 4).

English

Required in Major (36 hrs.): Freshman Composition (or Advanced Freshman English) (3); English Literature (6); Elements of Poetry (3); Approaches to English Study (3); plus 21 hours from departmental offerings (three of which may be in a lower division course. At least one course must be chosen from offerings in each of the following areas: Language and Literary Criticism; Literature Beginnings to 1700; Literature 1700 to 1832; Literature 1832 to 1900; One course must be in American Literature. See English Department advisement course list.

Intermediate level of a foreign language is strongly recommended.

Teacher education majors are also required to take

0803.360 Teaching Reading in the Secondary School and elect either 1501.332 Comparative Grammar, or 1501.431 Structure of the English Language. Either 1501.327 Structural Linguistics, or 1501.430 History of the English Language is strongly recommended. Other recommended electives for Teacher Education Majors are: 1501.226 Introduction to Classical Mythology; 1501.31 Advanced Exposition; 1501.401 Literature of Black America; 1506.106 Voice and Diction; 1506.213 General Semantics; 0803.359 Contemporary Materials for Teaching English in Secondary Schools; 0803.358 Teaching Composition in the Secondary School. And from Morgan State University. Introduction to the Negro in American Literature, The Negro in American Prose, and American Folklore.

French

Required in the Major (30 semester hours beyond the intermediate level (2nd year) of the language): 1102.301-302 Advanced Composition and Conversation I, II (6); 1102.321-322 Survey of French Literature I, II (6); 1102.391 Advanced French Grammar (3); plus 15 additional semester hours of electives in the major, at least nine of which must be 400 level literature courses. French Phonetics (1102.401) is highly recommended before student teaching.

General Science (Natural Science)

Required in Major (51 hrs.): 101-102 General Chemistry (8); 101 Fundamentals Biology (4); 211-212 General Physics (8); 105 General Botany (4); 109 Functional Anatomy of Vertebrates (4); 211 Analytical Chemistry or 231 Organic Chemistry (4); 121 Physical Geology (4); 211 General Astronomy (3); Advanced Laboratory 291 or 491 or 401 (2); Electives (11).

Required in Related Subjects (3 hrs.): 115 Mathematics I (3).

Geography

Required in Major (30 hours): Lower Division (100's-200's) courses (9); Upper Division (300's-400's) courses (21). (At least nine hours of which must be courses designated as systematic or technique courses.)

German

Required in the Major (30 semester hours beyond the intermediate level (2nd year) of the language): 1103.301-302 Advanced Composition and Conversation I, II (6); 1103.321-322 Survey of German Literature I, II (6); 1103.391 Advanced German Grammar (3); plus 15 additional semester hours, at least nine of which must be 400 level literature courses.

Health

Required in Major (32 hours): 101 Current Health Problems (3); 103 First Aid (2); 202 Principles and Practices of Community Health (3); 201 Health Education in the School I (3); 301 Health Education in the School II (3); 208 Mental Health (3); 401 Sex Education and Family Life (3); 405 Drugs in Our Culture (3); 402 Seminar in Health (3). Two health elective courses.

Required in Related Subject (31 hours): 0401.101 Contemporary General Biology (4); 1905.100 or 101 Chemistry (4); Human Anatomy & Physiology I & II (8); General Psychology (3); 2299.101 Introduction to Sociology (3); Microbiology (4); 1801.414 Educational Tests & Measurements (3); and two semesters of Phys. Ed.

Note: Health majors presently prepare only for secondary certification. However, they do take "Survey of Education Programs" or "Principles of Secondary Education."

Also, they take 14 semester hours of student teaching instead of 10. A combination School and Community Health Specialization is also available. For details see Health Science Department.

History

Required in Major (36 hours): History of the United States 2205.145-146 (6); History of European Civilization 241-242 (6); 2205.290 Introduction to Historical Study (3); A course from African, Asian or Latin American fields (3); plus 18 additional hours elected from offerings of the department (12 hours must be upper division).

Mathematics

Required in Major (30 hours): 261 Fundamentals of Math (3); 273 Calculus I Differential (4); 274 Calculus II Integral (4); 353 Elementary Geometry from an Advanced Standpoint (3); 361 Algebraic Structures (4); Plus 12 upper division elective hours in math.

Required in Related Subjects (10-11 hours): 0701.235 Fundamentals of Computing and either 1902.221-222 General Physics I & II (8), or 1902.315 Mathematics of Motion and one course selected from 0401.401, 0506.363, 2204.451, 2206.375, 2208.391, 1902.301, 1902.321, or an approved course.

Physics

Required in Major (28 hours): 1902.221-222 or 1902.211-212 General Physics. Any two of 1902.385 Mechanics and Heat, 1902.368 Modern Physics, 1902.387 Electricity and Optics. Either 1902.302 Thermodynamics and Kinetic Theory or 1902.321 Introductory Mathematical Physics. Either 1902.301 Mechanics or 1902.305 Electricity and Magnetism; and 1902.401 Physics Seminar.

Required in Related Subjects (20 credits): General Chemistry I and II; Math through Calculus II; and Contemporary General Biology.

Social Science

Required in Major (54 hours): 2205.241 History of European Civilization I (3) and 2205.242 History of European Civilization II (3); 2205.145 U.S. History I (3) and 2205.146 U.S. History II (3); 2206.101 or 2206.102 Elements of Geography (3) plus one upper division course (3); 2207.101, 103, 107, 207 Political Science (any two of these courses for 6 credit hours); 2299.101 Introduction to Sociology (3) and 2202.207 Cultural Anthropology (3); 2204.101 Economic Principles and Problems I and II (6); 12 hours of upper division electives in the social science disciplines plus 6 hours in lower or upper division history electives to meet state certification requirements.

Sociology

Required in Major (30 hours): 101 Introduction to Sociology (3); 381 Social Theory (3); 111 Behavioral Statistics (4); 391 Research Methods (3); plus 18 semester hours of electives from offerings of the department.

Spanish

Required in the Major (30 semester hours beyond the intermediate level (2nd year) of the language): 1105.301-302 Advanced Composition and Conversation (6); 1105.311-312 Culture and Civilization of the Spanish Speaking Peoples I, II (6); 1105.321-322 Survey of Spanish Literature I, II (6); 1105.391 Advanced Spanish Grammar (3); plus 9 additional semester hours of 400 level Spanish literature courses.

Speech-Drama (Communication Arts and Sciences)

Required in Major: 1506.106 Voice and Diction (3); 1506.131 Fundamentals of Speech Communication (3); 1506.203 Advanced Public Speaking (3); 1506.221 Oral Interpretation of Literature (3); 1506.310 Phonetics of American English (3); 1007.231 Mime I (3); 1007.311 Theatre Production (4); 1506.379 Teaching Speech and Drama in the Secondary School (3); plus 18 semester hours of specified electives from departmental offerings. Speech & Drama Secondary Majors are very strongly urged to complete 24 hours of English courses plus 0803.360 and 0803.357. Majors must register with the Area Coordinator one semester prior to student teaching.

Reading Concentration

The following courses are offered to permit a secondary student to add a reading concentration to any of the majors listed above: 0803.360 Teaching Reading in the Secondary School; 0803.461 Teaching Reading in the Secondary Content Areas; 0803.463 Developmental Reading for the Early Adolescent; and the following related course offerings: 0803.495, Independent Study in Secondary Education — Reading; 0803.457 Methods of Teaching English as a Second Language; 0801.425 Corrective Reading; 0803.399 Differentiated Student Teaching (Secondary Reading).

Dual Certification

The following majors are recognized only for dual certification (both elementary and secondary), and students must prepare to teach K-12. They must complete the general course requirements of the college, the requirements of the major department, and the following Teacher Education courses: Educational Psychology (Prerequisite: General Psychology); Survey of Educational Programs 0803.319 prerequisite 2001.201 (in lieu of "Principles of Secondary Education"); Methods of teaching major subject in Elementary School; Methods of teaching major subject in Secondary School; Student teaching in Elementary School; Student teaching in Secondary School; Foundations of Education 0801.401 (prerequisite: student teaching).

Art Education

Required in Major: 103 Two Dimensional Design (3); 104 Three Dimensional Design (3); 111 Drawing and Appreciation of Drawing (3); 121 History of Art, Ancient to Renaissance (3); 122 History of Art — Baroque to Modern (3); 229 Painting I; Oil (3); 230 Watercolor and Related Media (3); 231 Ceramics (3); 240 or 241 Sculpture (3); 225 Design for Commercial Art; 201 Color (3); 234 The Photographic Image (3); 375 Materials and Techniques for Teachers of Art (3).

Plus at least one of the following: 1001.347 Screen Process, 1001.349 Relief Process, 1001.449 Intaglio Process, or 1001.349 Lithographic Process (3).

Plus 12 additional hours — from departmental offerings, preferably in an area of specialization. (Electives also permitted in Stage Design, Photography, Films) (12). In addition to the Teacher Education courses, 0831.455 "Proseminar in Teaching of Art" is required, concurrent with student teaching in Art Education. 0831.477 is required; must be taken during the semester student registers for the methods courses.

Music

Required in Major (Instrumental Music 63; Vocal and General Music 63); Music Theory and Laboratory (16); Music Organizations (7); Piano Class (2); Voice Class (1);

Brass Class* (2); String Class* (2); Percussion Class* (2); Woodwind Class* (2); History of Music I & II (6); Choral and Instrumental Arranging (3); Conducting (Either Instrumental or Choral) as case may be (3); Form and Analysis (3); Private Lessons (7); General Music (3).

In addition, the following course is required which could be considered part of the professional courses. Organization and Administration of Music Education (3).

*Note: Vocal majors take these classes for one semester hour only. In lieu of this they must elect three additional hours, and take Voice Class for two semester hours instead of one.

Physical Education

Required in major (52-53 credits):

- 0835.299 Overview of Physical Education (2)
- 0835.303 Organization and Administration of P. E. (3)
- 0835.309 Tests and Measurements (3)
- 0835.311 Kinesiology (4)
- 0835.313 Physiology of Exercise (3)
- 0835.315 Care and Prevention of Athletic Injury (2)
- 0835.324 Teaching Physical Education in Elementary School (3)
- 0835.325 Teaching Physical Education in Secondary School (3)
- 0835.423 Adaptive Physical Education (3)

Laboratory Skills courses are required in the following categories:

Team Sports — three courses

Individual/dual Activities — five courses

Aquatics — two courses

Dance — two courses

Elementary Activities — two courses

ELECTIVES: fifteen (15) credits in physical education theory and professional laboratory skills courses from the remaining courses available in the Department are required.

Additional Certification Requirements (43):

- 0401.101 Biology (4)
- 0401.113 Anatomy and Physiology I (4)
- 0401.114 Anatomy and Physiology II (4)
- 1902.101 Physics B (5)
- 2001.201 Educational Psychology (3)
- 1201.101 Current Health Problems (3)
- 0803.319 Survey of Education (3)
- 0801.401 Foundations of Education (3)
- 0802.497 Student Teaching — Elementary (7)
- 0803.398 Student Teaching — Secondary (7)

UNDERGRADUATE COURSES IN SECONDARY EDUCATION (0803)

- 0801.101 CAREERS IN EDUCATION (2) See description under "Other Education Courses."
- 0803.301 FIELD EXPERIENCES IN SECONDARY EDUCATION (3) Experience in observing and studying school activities directly related to classroom instruction and pupil learning; observing and analyzing teacher roles, student roles and instructional environment. Emphasis is placed on direct experience in a variety of school settings. Prerequisite: 2001.201 (Educational Psychology). (May be taken concurrently.)
- 0803.319 SURVEY OF EDUCATIONAL PROGRAMS (3) Survey of educational programs and services K-12. Combines theoretical aspects of 0802.311 The Child in the Elementary School Curriculum and 0803.341 Principles of

Secondary Education. Open only to those students in art, music, physical education, speech pathology, health, or media specialists, whose majors lead directly to certification in elementary and secondary education. Prerequisite: Junior standing, 2001.201 or concurrently, and written permission, chairperson Department of Secondary Education. (Written permission not required of part-time evening students)

0803.341 PRINCIPLES OF SECONDARY EDUCATION (3) Philosophy and purpose of secondary education; nature of secondary education programs; principles of teaching and learning; basic techniques in instruction. Field experience required (an additional credit for the field experience may be earned by registering for the corresponding section of 0803.495 and completing course requirements). To be taken the semester prior to the methods course. Prerequisite: Junior standing, 2001.201 (or taken concurrently) and written permission, chairperson, secondary education. (Written permission not required of part-time evening students)

0803.353 TEACHING MODERN FOREIGN LANGUAGE IN THE SECONDARY SCHOOL (3) Aims and purposes of foreign language instruction; current curricular trends, including the importance of modern language teaching practices. Open to juniors or seniors, who plan to teach foreign language, with consent of instructor. Prerequisite: 0803.341 and written permission from Center for Applied Skills in Education (C.A.S.E.)

0803.355 TEACHING SOCIAL STUDIES IN THE SECONDARY SCHOOL (3) Objectives, curriculum, materials and instructional procedures in the teaching of social studies. Open to students in the student teaching block and others with equivalent backgrounds and objectives. Prerequisite: 0803.341 and written permission from Center for Applied Skills in Education (C.A.S.E.)

8003.357 TEACHING ENGLISH IN THE SECONDARY SCHOOL (3) Language arts as taught in secondary schools. Open to students in the student teaching block and to others with equivalent backgrounds and objectives with consent of instructor. Prerequisite: 0803.341 and written permission from Center for Applied Skills in Education (C.A.S.E.)

1506.379 TEACHING SPEECH AND DRAMA IN THE SECONDARY SCHOOL (see Communications Dept. Listings.)

Methods courses in each subject are not necessarily offered every semester. It is the responsibility of the student to meet with his/her secondary education advisor to determine when he/she will take the teaching methods courses.

1701.423 (50.423) TEACHING MATHEMATICS IN THE SECONDARY SCHOOL (see Math. Dept. Listings.)

1701.429 READINGS IN MATHEMATICS EDUCATION FOR THE SECONDARY SCHOOL TEACHER (see Math. Dept. Listings.)

0832.308 METHODS OF TEACHING INSTRUMENTAL MUSIC (see Music Dept. Listings.)

0832.309 METHODS OF TEACHING CHORAL AND GENERAL MUSIC IN SECONDARY SCHOOL (see Music Dept. Listings.)

0831.479 TEACHING ART IN THE SECONDARY SCHOOL (2) (See Art Dept. Listings.)

0835.325 ORGANIZATION AND TEACHING METHODS IN SECONDARY SCHOOL PHYSICAL EDUCATION (3) (See Phys. Educ. Dept. Listings.)

0834.380 TEACHING SCIENCE IN THE SECONDARY SCHOOL (3) Selection of appropriate content, method

and evaluation techniques, analysis of textbooks and resource materials. Must be taken in semester prior to student teaching.

0834.421 FIELD COURSE IN SECONDARY SCIENCE TEACHING METHODS (2) Analysis and evaluation of current materials and techniques in secondary science teaching. To be taken concurrently with student teaching at off-campus center. Prerequisite: 0834.379 and must be student teaching.

0834.470-475 SEQUENTIAL SCIENCE MODULES FOR THE ELEMENTARY SCHOOL TEACHER I-VI (1, 2 or 3) Three different modules of science instruction will be offered each semester for teachers of primary and intermediate grades. The course will emphasize instructional strategies in both the processes and content of the science. A student may elect to take 1, 2, or all 3 modules for 1, 2, or 3 credit hours respectively. All students must attend the first class meeting for course orientation. Thereafter, each module will meet once a week for four weeks. Each meeting will consist of approximately four hours laboratory work. Prerequisite: Teaching experience in the elementary schools.

0803.398 STUDENT TEACHING IN SECONDARY SCHOOL (6-14) Practical experience in observation, participation, and student teaching in public school situation. Prerequisite: 0803.341 or 0803.319 and appropriate methods course and written permission from Center for Applied Skills in Education (C.A.S.E.). Dual certification students receive permission from major department. Student Teaching is offered in the following subject areas:

0803.398 Art	(6)
0803.398 English	(10)
0803.398 Speech and Dramatics	(10)
0803.398 Mathematics	(10)
0803.398 French	(10)
0803.398 Geography	(10)
0803.398 German	(10)
0803.398 Health	(8 or 14)
0803.398 History	(10)
0803.398 Music	(6)
0803.398 Physical Education	(6-7)
0803.398 Biology	(10)
0803.398 Secondary School Science	(10)
0803.398 Social Studies	(10)
0803.398 Spanish	(10)
0803.398 Socio-Economic Business Subjects	(10)

0803.399 DIFFERENTIATED STUDENT TEACHING — SECONDARY (1-8) Student teaching experiences in addition to those in 0803.398 or student teaching in special subject areas, according to needs and interests of the student. Prerequisite: Consent of the student's area director; written permission, Dr. Barbour, Center for Applied Skills in Education (C.A.S.E.)

0801.397 PRACTICUM: THE MEDIA CENTER IN THE ELEMENTARY SCHOOL (6) (See description under "Other Education Courses".)

0801.398 PRACTICUM: THE MEDIA CENTER IN THE SECONDARY SCHOOL (6) (See description under "Other Education Courses".)

0801.401 FOUNDATIONS OF EDUCATION (2-3) (See description under "Other Education Courses".)

0803.401 ANALYZING STUDENT TEACHING (3) Analysis of and development of solutions for problems in pupil behavior, curriculum, evaluation and instructional procedures. Secondary teaching philosophies and strategies based upon identified needs determined as a result of the student teaching experience will be explored in depth. Undergraduate credit only. Prerequisites: Completion of student teaching.

0803.421 THE JUNIOR HIGH SCHOOL (3) Principles, purposes, functions, and characteristics of the Junior High School, with emphasis upon its organization and curriculum. Prerequisite: 0802.311 or 0803.319 or 0803.341. (G)

0803.423 THE MIDDLE SCHOOL (3) Functions and characteristics of the middle school; emphasis on nature of transescent youth (ages 10-14), curriculum, and organizational patterns. Prerequisite: 0802.311, or 0802.462, or 0803.319, or 0803.341. (G)

0803.425 TEACHING IN THE MIDDLE SCHOOL (3) Instruction in the methods, required for teaching in the middle school. An individualized program of instruction, readings, observations and teaching experiences will be planned for each student. Prerequisite: Teacher experience, student teaching, or concurrent with student teaching. (G)

0803.441 METHODS OF TEACHING SOCIO-ECONOMIC BUSINESS SUBJECTS IN SECONDARY SCHOOLS (3) Selection of appropriate content, methods and materials and evaluation techniques for teaching socio-economic subjects in secondary schools. Planning approaches for developing curricula in General Business. Business law, consumer economic, business mathematics, bookkeeping, and economic geography. Prerequisites: 2001.201 and 0803.341 and written permission from the Center for Applied Skills in Education (C.A.S.E.)

0803.451 SLOW LEARNER IN THE SECONDARY SCHOOL (3) Explores motivational devices, discipline, planning instruction, testing and evaluation for the slow learner as well as techniques for developing an adequate self-concept and maintaining a positive classroom atmosphere.* Prerequisite: Teaching experience, student teaching, or consent of instructor. (G)

0803.457 METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE (3) Teaching teachers methods of teaching English as a second language. Attention is given to the use of visuals, contrastive analysis, drill techniques, and other methods and resources. Prerequisites: Teaching experience or consent of instructor. (G)

0803.458 TEACHING COMPOSITION IN THE SECONDARY SCHOOL (3) This course includes: grammar vocabularies, motivational techniques, evaluation, student publications, varieties of purposes for writing, oral composition, laboratory experiences and individual problem analysis. Prerequisite: 0803.357 or consent of instructor. (G)

0803.459 CONTEMPORARY MATERIALS FOR TEACHING ENGLISH IN SECONDARY SCHOOLS (3) Application of new materials designed for teaching the language arts in the secondary school including records, films, SRA materials, programmed learning, and television. Prerequisite: 0803.357 or consent of instructor. (G)

0803.460 TEACHING READING IN THE SECONDARY SCHOOL (3) General developmental reading skills; identification, diagnosis and remediation of reading problems; comprehension, vocabulary building, work-study skills. (G) Prerequisites: 0803.341 or Concurrently; Written permission, Chairperson, Department of Secondary Education (Written permission not required of part-time evening students) (G)

0803.461 TEACHING READING IN THE SECONDARY CONTENT AREAS (3) Teaching reading study skills leading to reading efficiency and problem solving associated with specific subject matter content. Prerequisites: 0803.460. (G)

0803.463 DEVELOPMENTAL READING FOR THE EARLY ADOLESCENT (3) Methods of designing and teaching developmental reading programs for the middle

or junior high school student. Attention to the following: providing for individual differences, teaching students to read critically, developing and extending reading interests. Prerequisite: 0803.460 or equivalent reading methods course. (G)

0803.470-489 SPECIAL TOPICS IN SECONDARY EDUCATION: (Topic to be named) (1-3) In-depth study of a selected topic in Secondary or Adult Education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Graduate credit only with approval of the graduate coordinator. Each topic may be taken as a separate course. (G)

0803.494 TRAVEL AND STUDY IN SECONDARY EDUCATION (1-6) Study abroad of educational facilities, programs or practices, or selected projects in education topics. By special arrangement with program chairperson and sponsoring instructors. Consent of graduate program coordinator required for graduate degree credit. (G)

0803.495 INDEPENDENT STUDY IN EDUCATION: SECONDARY (1-4) An opportunity for especially qualified students to undertake research problems or study projects relevant to their interest and training under the direction of a staff member. Prerequisite: Consent of Chairperson of Secondary Education. Graduate credit by consent of Graduate Program Coordinator only. (G)

0803.496 DIRECTED READINGS IN SECONDARY EDUCATION (1-4) Independent reading in selected areas of Secondary Education in order to provide for the individual a comprehensive coverage or to meet special needs. By Invitation of the Department to major students. Prerequisite: Obtain consent of chairperson of Secondary Education. Graduate credit by consent of Graduate Program Coordinator only. (G)

(G) May be available for graduate credit. See Graduate Catalog.

Graduate Only

0803.511 DIAGNOSIS AND PRESCRIPTION OF LEARNING DISABILITIES OF SECONDARY SCHOOL STUDENTS (3) Nature and causes of learning disabilities of secondary and middle school pupils; psychological and pedagogical principles underlying remediation; techniques of diagnosis and prescription for learning-disabled pupils. Prerequisites: 0803.460 or equivalent; teaching experience.

0803.521 INDIVIDUALIZED LEARNING IN THE SECONDARY SCHOOL (3) Bases for individualizing instruction; organizational patterns; assessing pupil readiness; preparing goals; developing learning strategies in secondary content areas; grading and evaluation; implementing individualized programs on a classroom, departmental and school level. Prerequisite: teaching experience.

0803.641 CURRICULUM DEVELOPMENT IN THE SECONDARY SCHOOL (3) Principles and philosophies of curriculum development; objectives, practices and evaluation trends; the teacher's role. Prerequisite: Consent of Instructor.

0803.643 THE ADMINISTRATION OF THE SECONDARY SCHOOL (3) Analysis of principles of school administration, the administrator's roles and responsibilities, human relations and personnel management, public relations, management of the school unit and curriculum. Prerequisite: Three years teaching experience, teacher certification and nine hours of graduate credit.

0803.647 THE TEACHING PROCESS: SECONDARY EDUCATION (3) Study of recent theories, methods, and findings in research on the teaching process. Analysis of

teaching behaviors and exploration of teaching strategies in educational programs for Secondary students. Prerequisite: Teaching experience, either 2001.511 or 0801.501, and consent of Education Graduate Coordinator. One semester per year, day and/or evening and Summer.

0803.670-674 **SPECIAL TOPICS IN SECONDARY EDUCATION:** (Topic to be named) (1-3) In-depth study of a selected topic in education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Approval by the appropriate graduate coordinator is required. Each topic may be taken as a separate course. Prerequisite: Will vary with each topic; approval of graduate coordinator.

0803.679 **SEMINAR IN SECONDARY SCHOOL SOCIAL STUDIES** (3) A seminar approach to current research, trends, practices, issues, content, materials, and problems in the teaching of contemporary secondary school social studies. Individual reading and research will be pursued on selected topics culminating in a seminar paper. Prerequisite: Consent of instructor, or prior teaching experience in social studies.

0803.681 **SEMINAR IN SECONDARY EDUCATION** (3) Scholarly investigation of selected aspects of secondary education with emphasis on classroom application. A paper involving description and evaluation of the investigation will be required. Prerequisite: Twenty-four hours of graduate work including 0801.691.

0803.683 **SEMINAR IN SECONDARY SUPERVISION** (3) Role of the supervisor; supervisory practices and techniques. Students may concentrate in areas related to their professional interests. Prerequisite: Nine hours of graduate work in the field of education.

0803.699 **MASTERS THESIS IN SECONDARY EDUCATION**

Master of Education in Secondary Education

For detailed information regarding the Master of Education in Secondary Education see the Catalog of Graduate Studies.

ADULT EDUCATION COURSES (0807)

0807.485 **ADULT EDUCATION** (3) Introduction to the historical and philosophical evolution of adult education in the United States in relationship to current aims, types of programs, and issues. Prerequisite: Consent of instructor. (G)

0807.487 **TEACHING THE ADULT LEARNER** (3) Teaching-learning activities at various levels of adult education. The needs, motivation, and abilities of the adult learner are stressed. Prerequisite: Consent of instructor. (G)

0807.489 **PRINCIPLES OF READING INSTRUCTION FOR ADULTS** (3) Causes of adult reading disabilities, evaluation relevant to reading disability, and the methods and materials employed in the remediation process. Prerequisite: Consent of instructor. (G)

DRIVER AND SAFETY EDUCATION (0836)

A. Requirements for certification in Driver Education for teaching in public or private high schools approved by the MSDE.

General requirements: (1) A bachelor's degree and (2) A teaching certificate with a teaching major; or (1) Complete the General Education Requirements, (2) Develop a major and meet certification requirements in the major, and

(3) Complete the following as elective courses: Educational Psychology; Principles of Secondary Education; Audio-Visual Laboratory or Methods and Materials in New Educational Media.

Specific requirements:

(1) Complete 12 required credits: 0836.431; 0836.434; 0836.446; 0836.433.

(2) Complete 6 elective credits from: 0836.430; 0836.442; 0803.399; 0803.495 (may not be acceptable for certification but satisfy Board of Education for advanced credits).

B. Requirements for paraprofessional certification in Driver Education for teaching laboratory phases in public or private high schools approved by the MSDE.

General requirement: High school diploma or equivalent.

Specific requirements: Complete 12 credits from: 0836.431; 0836.433; 0836.434; 0836.446.

C. Requirements for classroom instruction certification by MMVA for teaching in a commercial driving school.

General requirement: A Bachelor's degree.

Specific requirements: Complete six credits from 0836.431; 0836.433; 0836.434; 0836.446.

0836.430 **PRINCIPLES OF ACCIDENT PREVENTION** (3) Includes a survey of the history and philosophy of the safety education movement, need for safety education, aims and objectives, accident causation and prevention, and the role of education in eliminating environmental hazards and reducing avoidable human error. (G)

0836.431 **HIGHWAY TRANSPORTATION SYSTEM AND DRIVER TASK ANALYSIS** (3) History and philosophy of automobile and highway safety engineering, U.S. and International traffic controls, traffic laws and regulations, critical analysis of traffic accidents and causation, and attitude factors. (G)

0803.399 **DIFFERENTIATED STUDENT TEACHING — SECONDARY** (1-8) Student teaching experiences in addition to those in 0803.398 or student teaching in special subject areas, according to needs and interests of the student. Prerequisite: Consent of the student's area director; written permission, Dr. Barbour, Center for Applied Skills in Education (C.A.S.E.).

0836.433 **MULTIPLE CAR FACILITIES AND ON-STREET INSTRUCTION IN DRIVER EDUCATION** (3) Supervised student teaching in Driver Education, including classroom and in-car, and utilization and planning for multiple-car facility: (May be taken concurrently with 0836.434.) Prerequisite: 0836.431 Maryland license and three years driving experience with good record. (G)

0836.434 **FIXED BASE SIMULATION AND ON-STREET INSTRUCTION IN DRIVER EDUCATION** (3) Supervised student teaching using driving simulators. Theory, mechanics, techniques, utilization and evaluation of driving simulators. (May be taken concurrently with 0836.433.) Prerequisite: 0836.431 Maryland license and three years driving experience with good record. (G)

0836.439 **BASIC PUPIL TRANSPORTATION** (3) Consideration of organization and administration of state, county, and district pupil transportation service with emphasis on safety and economy. Selection and training of drivers, route planning, maintenance, mechanics, bus specifications and procurement are included. Prerequisite: Approval of Director. (G)

8036.440 **ADVANCED PUPIL TRANSPORTATION** (3) Consideration of the problems of school bus transporta-

tion, solutions employed, and a review of research and techniques in this field. Workshop approach utilized. Prerequisite: Approval of Director. (G)

0836.441 ADMINISTRATION AND SUPERVISION OF DRIVER EDUCATION (3) Background and experience in administration and supervision of Driver Education programs. Methods of organization, techniques, materials, program planning, records and reports, financing and insurance, procurement, personnel selection, planning classroom and in-car laboratory experiences are included. Prerequisite: 6 credits in approved Safety and Driver Education courses or approval of Director. (G)

0836.445 CURRICULUM DEVELOPMENT IN DRIVER EDUCATION (3) History of curriculum development in driver education; principles; philosophies; objectives; current practices, evaluation techniques; laboratory experience; and field study. Prerequisite: 6 credits in approved Driver Education Courses or approval of Director. (G)

(G) May be available for graduate credit.

GENERAL STUDIES IN EDUCATION MAJOR

The Major in General Studies in Education permits highly individualized programs or thematic options described in terms of the students' recognized needs and the requirements of positions for which they hope to prepare. (E.g., one such emphasis has been developed in Library Media Education.) Inquiries should be made to the Director of Professional Programs, Division of Education. The following guidelines must be followed:

A. The student must achieve a 2.0+ C.P.A. and must declare the major by submitting a plan of study no later than the first semester of the junior year. This plan of study must be approved in advance by the student's Education advisor and the Associate Dean of Education.

B. The student must satisfy the General University Requirements and a minimum of 120 hrs. for graduation.

C. The student must complete 36 or more additional hours in liberal Arts and Sciences courses from Art, Biology, Chemistry, English, Geography, Health, History, Modern Languages, Mathematics, Music, Philosophy, Physics, Psychology, Sociology, or Theatre. These hours must include work from a minimum of four different departments and be approximately balanced between the arts and the sciences (physical or social). A rationale for the selection of these courses must be followed.

D. The student must also include in his program a professional component of approved professional courses planned to prepare him/her for a specialty. This component must be designed with appropriate competencies in an area of expertise chosen by the student. This part of his program must consist of at least 80% upper-division courses and center around a "core" specialty which leads to professional certification or expertise in an Education-related occupation.

Consult General Studies Education Advisor, Dr. Van Norman, before taking any courses.

LIBRARY MEDIA EDUCATION PROGRAMS

Students may prepare to meet certification requirements for school media center positions K-12 in the following ways:

1. "Minor" Program: State certification for school "librarian" or media center positions (Education Media Associate Level I) may be obtained by completing one of the majors in teacher education plus an additional eighteen

semester hours of specified Media Education courses as a "minor" elective. Consult Dr. Van Norman.

2. Major Programs: The General Studies in Education Major provides for a thematic option in Library Media Education which is designed to prepare students for certification as school "librarian" (Education Media Associate Level I). Students interested should inquire in Division of Education before taking any courses. Consult Dr. Van Norman.

The Instructional Technology Major offered by the Department of Instructional Technology is also designed to meet the same certification requirements. See Department of Instructional Technology listings.

3. Graduate Study: Students who have bachelor's degree and wish to prepare for an advanced certification in school "librarianship" (Education Media Generalist, Level II) should consult the Department of Instructional Technology. See Department of Instructional Technology for media courses.

OUTDOOR EDUCATION

State certification in outdoor education may be met by adding the following to a teacher education major:

1. **0835.305 OUTDOOR EDUCATION: PHILOSOPHY AND METHODS** (See Physical Education Department Listings.)

2. Included in the degree or in addition to it, fifteen semester hours in natural sciences. (Seek advisement.)

3. Differentiated student teaching experiences in this field (or one year's teaching experience in outdoor education).

Inquire of Dr. VanNorman in Education, or the Chairperson of Physical Education before taking courses.

SOCIAL RESTORATION EDUCATION

Institutionalized youth who are alienated, socially maladjusted, or delinquent, as well as those minors who become wards of the state for other reasons (orphans, or victims of child abuse, for example), need teachers who are especially motivated and who have a range of skills beyond those of minimal teacher preparation. The State of Maryland does not have specific certification requirements for this specialization, but Towson offers a concentration of electives at both undergraduate and graduate levels.

Undergraduate teacher education majors may supplement their program with a concentration of recommended electives designed to prepare them for teaching institutionalized youth. Field experiences may be arranged.

Graduate students may enroll in a newly approved specialization in Social Restoration Education under the Masters Degree in Secondary Education, including an internship.

Interested students at either level should consult Dr. Selma Lyons.

SPECIAL EDUCATION COURSES (0808)

At the present time Towson State University does not offer a degree in special education. The courses offered in special education are designed to supplement the regular teacher education program to enable teachers to work with atypical or handicapped children who are likely to be mainstreamed.

Certification requirements in special education in Mary-

land are being revised and students are urged to check the current status of the revision process with their advisor before planning their program.

Through a cooperative arrangement with Coppin State College, our teacher education majors can add the endorsement of certification in special education. At least nine of the currently required 18 hrs. in special education can be taken at Towson: Eg. The first three courses listed below. Other electives at Towson which relate to special education are listed here also; however, students should check in advance the acceptability of course selections for certification purposes.

2001.471 INTRODUCTION TO THE EXCEPTIONAL CHILD (3) (See Psychology Department listing.)

0823.417 EARLY IDENTIFICATION OF LEARNING DISABILITIES (3) (See Early Childhood Education listings.)

0808.441 SPECIAL NEEDS OF THE HANDICAPPED CHILD (3) Characteristics of the handicapping condition as it affects learning in a classroom setting. Methods of tailoring educational programs for children with handicaps in the following areas: vision, hearing, speech and language, emotional disturbance and physical and/or chronic medical conditions. (Observations in appropriate settings and guest lecturers in speciality areas.) Prerequisites: six credits psychology; and six credits in education.

0802.431 DIAGNOSIS AND PRESCRIPTION FOR LEARNING DIFFICULTIES (3) (See Elementary Education listings.)

0802.433 EDUCATING THE GIFTED (3) (See Elementary Education listings.)

0808.481 METHODS AND MATERIALS FOR TEACHING THE VISUALLY IMPAIRED (3) A course designed to examine recognized methods, materials, and programs for teaching children who are visually impaired. Included is the opportunity for students to select appropriate content and projects to meet unique interests and needs. Prerequisites: 2001.101 and 2001.201 and 0808.483 or consent of instructor.

0808.483 BRAILLE READING AND WRITING (3) Course deals with reading and writing of braille. Additional individual project required of students taking course for graduate credit. Prerequisites: 2001.101, 2001.201 and consent of instructor. (G)

Speech Pathology and Audiology courses (See Communications Arts and Sciences Department listings)

0808.411 THE HOSPITALIZED CHILD (3) A course designed to prepare students to meet the emotional and cognitive needs of hospitalized children. It focuses upon the psychological effects of hospitalization on children and their families and presents strategies for operating pediatric playrooms in hospitals. A field placement in the pediatric unit of an area hospital is featured. Prerequisites: One course in Elementary or Early Childhood Education, or one course in Nursing, or consent of instructor.

0808.497 PRACTICUM: CHILDREN WITH SPECIAL NEEDS (1-4) A supervised clinical field experience for students who plan to work with children with special needs. Disability areas include: sensory impaired; emotionally disturbed; chronic medical conditions; hospitalized; institutionalized. Prerequisites: 6 hours PSYC; 6 hours ECED or equivalent and consent of the department. (G)

Graduate Only

0803.511 DIAGNOSIS AND PRESCRIPTION OF
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LEARNING DISABILITIES OF SECONDARY SCHOOL STUDENTS (3) (See Secondary Education listings.)

0823.517 ADVANCED LEARNING DISABILITIES (3) (See Early Childhood Education listings.)

0808.541 SPECIALIZED TEACHING TECHNIQUES FOR THE HANDICAPPED (3) This course is designed to help teachers develop basic teaching skills and instructional strategies appropriate for mildly and moderately handicapped children. The emphasis is on precision teaching techniques and special materials appropriate for children with special handicaps; a multimedia instructional approach is utilized. Prerequisite: Graduate standing; 0808.441 and 12 hours Psychology.

0808.641 INTERNSHIP IN HANDICAPPED CHILDREN (3-6) This course is the third in a three semester sequence in understanding and working with handicapped children. It is designed to give teachers an opportunity to teach/work in an educational/remedial/therapeutic setting with young children who have sensory impairments, severe emotional disturbance and/or chronic medical conditions. Both public and private educational facilities or institutions will be placement locations. Prerequisite: Graduate standing; 0808.441 (or equivalent); 0808.541 (or equivalent) and 12 hours Psychology.

0823.617 INTERNSHIP IN LEARNING DISABILITIES (3-6) (See Early Childhood Education listings.)

(G) May be available for graduate credit. See Graduate Catalog.

SPEECH PATHOLOGY AND AUDIOLOGY

A program to meet certification requirements as a speech and hearing clinician in the Public Schools is offered by the Department of Communication Arts and Sciences. Consult the requirements for the major in Speech Pathology and Audiology listed by that department.

OTHER EDUCATION COURSES (0801)

0801.101 CAREERS IN EDUCATION (2) Guided field experiences, designed to help students expand their knowledge of careers in education as a basis for choosing a major emphasis. Examination of careers in education and the scope of education in a democracy.

0801.201 THE PARENTING PROCESS (3) A scientific appraisal of methods of parenting theories with specific references to Freud, Glasser, Harris, Ginott, Dreikurs, Gesell, Skinner, and Spock. This course is designed for those wishing to decide on parenting techniques and those who are professionals and counsel parents.

0801.301 WRITING AND COMMUNICATION SKILLS FOR TEACHERS (3) Practicum on development of written and oral communication skills needed in professional teaching situations. Focus will be on preparation of written materials which are appropriate for specific classroom and professional needs. Course content will be individualized to meet interests and needs of class members. Prerequisites: 1501.102.

0835.305 OUTDOOR EDUCATION: PHILOSOPHY AND METHODS (See Physical Education Department Listing.)

0801.311 CREATIVE TUTORING (2) A course designed to address the needs of college students who are interested in working with adults in a tutorial relationship. Students will receive instruction in methods and materials for tutoring. Must be taken on pass option basis. Prerequisite: 2001.101 and consent of instructor.

- 0801.315 EDUCATIONAL MEASUREMENT FOR CLASSROOM TEACHERS (2)** Problems in measurement; principles underlying choice of test instruments; survey of test literature; dealing with test data; correlation and interpretation of tests. Prerequisites: Junior standing and 2001.201.
- 0801.325 FIELD EXPERIENCES: EDUCATION IN INFORMAL SETTINGS (1-3)** Studying and/or working with children in non-classroom settings such as camps, recreational centers, or field trips. Individual plans of study and evaluation will be developed with the instructor. Prerequisite: Consent of instructor.
- 0801.397 PRACTICUM: THE MEDIA CENTER IN THE ELEMENTARY SCHOOL (6)** Supervised media center practice in an elementary or middle school. Intended to be taken in one-half of a semester concurrently with 0601.475 Methods for Media Personnel in the Elementary School. Prerequisite: Admission by consent of department chairperson. Graded under S/U procedure.
- 0801.398 PRACTICUM: THE MEDIA CENTER IN THE SECONDARY SCHOOL (6)** Supervised media center practice in a secondary school. Intended to be taken in one-half of a semester concurrently with 0601.477 Methods for Media Personnel in the Secondary School. Prerequisite: Admission by consent of department chairperson. Graded under S/U procedure.
- 0801.401 FOUNDATIONS OF EDUCATION (2-3)** Sociological, philosophical, psychological and historical foundations of western education. Perspectives in these areas as they relate to current educational issues and practices. Three semester hours credit upon consent of department chairperson. Prerequisite: Student teaching and consent of chairperson, Department of Secondary Education. (G)
- 0801.402 HISTORY OF EDUCATION (3)** Major developments, personalities, and movements in the evolution of education. (G)
- 0801.403 COMPARATIVE EDUCATION (3)** A study of patterns of education in different cultural settings with implications for the student of American education. Emphasis on cross-cultural, political, economic and social aspects of education. Prerequisites: 0801.401 or equivalent. (G)
- 0801.405 PHILOSOPHY OF EDUCATION (3)** Philosophic dimensions of the teaching learning process, as discriminated and discussed by major philosophers and educational philosophers. (G)
- 0801.406 RECENT TRENDS IN TEACHING (3)** Recent teaching strategies, organizational patterns and curricular innovations for levels K-12 are examined. Students may pursue individualized projects. Prerequisite: Student teaching or senior standing with consent of instructor. (G)
- 0801.407 CONTEMPORARY ISSUES IN EDUCATION (3)** Seminar approach to current issues in education. Prerequisite: Student teaching or senior standing with consent of instructor. (G)
- 0832.408 ORGANIZATION AND ADMINISTRATION OF MUSIC EDUCATION (See Music Department Listings.)**
- 0801.409 FIELD STUDIES OF THE CHILD AND HIS COMMUNITY (2)** Planning and working with groups of children in approved social agencies or making extensive studies of recreational and non-recreational social agencies. Class discussions and field trips. (G)
- 0801.411 OPEN EDUCATION: PHILOSOPHY AND PRACTICE (3)** Philosophy and operation of open education schools, planning, management and evaluation. Emphasis on cognitive development. Prerequisite: Teaching experience. (G)
- 0801.412 OPEN EDUCATION: INTERPERSONAL RELATIONS (3)** Interaction in team teaching. Human Relations skill development for adults and children. Emphasis on affective domain. Prerequisite: Teaching experience and 0801.411. (G)
- 0801.414 EDUCATIONAL TESTS AND MEASUREMENTS (3)** Problems in measurement; principles underlying choice of test instruments, survey of test literature; dealing with test data; correlation and interpretation of tests. Not open to those who have had 0801.315. (G)
- 0801.415 EDUCATIONAL STATISTICS (3)** Designed as a practical course in statistics for the student in education. Emphasis is upon educational applications of descriptive statistics, including central tendency, variability, and association. Prerequisite: 1701.204, 1701.205 or equivalent. (G)
- 0801.417 CHILDREN'S LITERATURE (3)** Study of the world of literature for children through wide independent reading as well as examination of non-print materials. Criteria and aids for selection. Attention to authors, illustrators, awards and citations. The importance of literature in the curriculum and in the lives of children. (G)
- 0801.418 YOUNG ADULT LITERATURE (3)** Examination of literature as an expression of basic needs and ideas of youth through wide independent reading; studying criteria and aids for selection of books and other media; evaluating in terms of forces affecting society and the adolescent. (G)
- 0801.419 STORYTELLING (3)** The selection and presentation of stories for children. A study of sources for the storyteller in folklore, myth, legend, poetry, and the writings of storytellers. Development of skills in storytelling. Prerequisite: 0801.417 or consent of instructor.
- 0801.425 CORRECTIVE READING (2-6)** The psychology of reading; methods, principles, techniques, and materials for the classroom teacher in meeting typical learning patterns. Experience in a practicum situation involving the development of skill in analysis and correction of reading disabilities. Prerequisite: 0802.497 and 0802.429 or 0802.427, or consent of instructor. (G)
- 0801.431 THE SCHOOL CURRICULUM (3)** An examination of curriculum patterns and practices; includes sociological, philosophical and psychological factors which shape the curriculum. Prerequisites: Student teaching or professional experience in education. (G)
- 0801.433 THE NON-GRADED CURRICULUM (3)** Study and analysis of the non-graded approach to curriculum organization; focus on rationale, principles and models of continuous-progress curricular programs in elementary and secondary schools. Prerequisites: Student teaching or professional experience in education. (G)
- 0801.435 TEACHING PHILOSOPHY IN THE SCHOOLS (3)** This course provides teachers with the skills and understandings to teach philosophical thinking. Students will learn to make use of the materials, content, and pedagogy using the "Philosophy for Children" approach. Prerequisites: 1509.101, 1509.111, teaching experience or consent of instructor.
- 0801.441 TRANSACTIONAL ANALYSIS IN EDUCATION (3)** Principles and theory of transactional analysis and the relation of this knowledge to education. The application of transactional analysis and its related theories to the education setting. Prerequisites: Teacher certification or consent of the instructor.
- 0801.445 HUMAN RELATIONS AND THE INDIVIDUAL (3)** Consideration will be given to: understanding one's self, the nature of prejudice and environmental

factors which influence minority groups and cultures, and relationship of these factors to the development of meaningful educational programs. Prerequisite: For undergraduates: student teaching, and at least one course each in sociology and psychology. For graduates: teaching experience or certification. (C)

0801.446 HUMAN RELATIONS AND THE COMMUNITY (3) Consideration of political, economic, social, and educational factors as they affect minority cultures and implications for school and college programs. Prerequisite: For undergraduates: student teaching and at least one course each in sociology and psychology. For graduates: teaching experience or certification. (G)

0801.447 NEW APPROACHES TO POSITIVE LEARNING CLIMATES (3) A study of the theories and skills of various communication and climate setting strategies through problem solving and increased insight about interpersonal relationships. Prerequisite: Teaching certification or consent of the instructor.

0801.449 CITIZENSHIP EDUCATION IN THE SCHOOL (3) The development and implementation of activities for citizenship education in the school: philosophy, concepts, principles, techniques and resources for teacher and administrator. Prerequisite: 0801.401 and 0802.375 or equivalents, consent of instructor, teaching experience. (G)

0801.451 GUIDANCE IN THE PUBLIC SCHOOL (2-3) Scope and function of a guidance program; the role of the classroom teacher in guidance. (G)

0801.453 SUPERVISORY PRACTICES IN TEACHER EDUCATION (3) Experiences and study in developing particular skills and competencies for supervising quality laboratory/field experiences. Content is designed for supervising teachers, team leaders, and resource personnel. Prerequisite: Teaching experience. Graduates count this as a workshop elective. (G)

0801.455 INTRODUCTION TO CAREER DEVELOPMENT EDUCATION: THEORY AND PRACTICE (3) Recent trends in career development programs K-12: examining presently operating career programs; evaluating existing career materials; assessing attitudes toward work and the elements of career choice. Prerequisite: Undergraduate: six hours of psychology and senior standing; Graduate: Bachelor's degree or equivalent. (G)

0801.461 LANGUAGE AND THE URBAN CHILD (3) Language theory in reference to psychological, sociological, and cultural effects in the classroom will be studied. Special emphasis will be given to the analysis of dialects and "standard" and "non-standard" speech patterns as well as practical classroom applications. Prerequisite: Teaching or student teaching experience, or consent of instructor. (G)

0801.463 GENDER IDENTITY IN EDUCATION (2 or 3) An examination of theories of sex role development and their impact on educational methods and curriculum. Degree candidates must obtain permission of their graduate advisor. Staffed by Education Division. Assistance of Women's Studies Staff may be utilized. The course will carry three credits when scheduled for three hours meeting per week and two credits when scheduled for two hours meeting per week. Prerequisites: Upper level standing, 2001.101 and three credits in PSYC and one of the following, depending on major: Elem. Educ. — 0802.361, Early Childhood — 0823.341, Secondary — 0803.319 or 0803.341, permission of instructor. (G)

0801.467 TEAM TEACHING WORKSHOP (3) Conducted to assist teachers who are actively engaged in team teaching or will be participating as members of a team in the future. (G)

0801.470-489 SPECIAL TOPICS IN EDUCATION: (Topic to be named) (1-3) In-depth study of a selected topic in Education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time there is a topic scheduled. Graduate credit only with approval of the graduate program coordinator. Each topic may be taken as a separate course. (G)

0834.488 AEROSPACE EDUCATION WORKSHOP (3) In cooperation with CAP, USAF, and NASA. A fund of general knowledge about aviation and space exploration. Teaching materials, resources, and field experiences. Usually a week-end at Florida's Cape Kennedy Space Center and other day-long tours, TBA. For K-12 teachers, supervisors, and administrators and students of teaching. LAB FEE \$15 which includes travel charges. Three weeks. Summers only. (G)

0801.494 TRAVEL AND STUDY EDUCATION: (PROJECT TO BE NAMED) (1-6) Study abroad of educational facilities, programs or practices, or selected projects in educational topics. By special arrangement with program chairperson and sponsoring instructors. Consent of graduate program coordinator required for graduate degree credit. (G)

0801.495 INDEPENDENT STUDY IN EDUCATION: (PROJECT TO BE NAMED) (1-4) An opportunity for especially qualified students to undertake research problems or study projects relevant to their interest and training under the direction of a staff member. Prerequisite: approval of appropriate program chairperson. Graduate credit by consent of graduate program coordinator only.

0801.496 DIRECTED READINGS IN EDUCATION (1-4) Independent reading in selected areas of Education, in order to provide for the individual a comprehensive coverage or to meet special needs. By invitation of the Department to major students. Graduate credit by consent of graduate program coordinator only.

(G) May be available for graduate credit. See Graduate Catalog.

Graduate Only

0831.595 RESEARCH IN ART AND ART EDUCATION (3) (See Art Dept. Listings.) (G)

0831.697 SEMINAR IN ART EDUCATION (3) (See Art Dept. Listings.) (G)

0832.501 CURRENT TRENDS IN MUSIC AND MUSIC EDUCATION (See Music Dept. Listings.) (G)

1005.595 RESEARCH METHODS IN MUSIC AND EDUCATION (See Music Dept. Listings.)

1701.525 SEMINAR IN MATH EDUCATION (See Math Dept. Listings.)

0801.501 EDUCATIONAL IDEAS IN HISTORICAL PERSPECTIVE (3) Current trends and issues in education as reflecting and influencing the social, economic, and political forces in our cultural heritage. Prerequisite: 0801.401, 0801.402, or 0801.405.

0801.507 HOME, SCHOOL, COMMUNITY (3) The interaction between home and school and community in educational programs; survey and evaluation of techniques for working with parents; study of various agencies contributing to the education and well-being of children and youth at home and at school. Prerequisite: A course in Sociology and consent of Department of Education.

0801.511 SUPERVISION OF STUDENT TEACHING (3) An analysis of the roles of the cooperating teacher, college

supervisor, and student teacher; current practices, issues, problems, trends and evaluation in laboratory experiences, current research. Prerequisite: Teaching experience.

0801.517 SCHOOL LAW (3) A study of the legal framework within which the public and non-public schools function. The course will give attention to the legal relationships among federal, state, and local governments; the legal status of school districts, boards of education, and school administrators; the legal status of non-public schools; and the law regarding all facets of the school program, staff, and pupils. Prerequisite: 0801.501.

0801.549 AMERICAN POLITICS AND EDUCATION (3) The American political structure and its relation to policy making and administration of public education. Topics include: educational opportunity, community responsibility and control, accountability, role of the courts, church-state relations, academic freedom. Prerequisite: 0801.401 and Political Science 2207.103 or equivalent.

0801.550 ANALYSIS AND MODIFICATION OF TEACHING BEHAVIOR (3) The analysis of teaching learning situations to aid the advanced teacher education students to develop, refine and prescribe skills and strategies and field work. Prerequisites: Teaching experience, supervisory experience, 0801.471 and/or 0801.511.

0801.585 INTERDISCIPLINARY SEMINAR IN PHILOSOPHY AND EDUCATION (3) An interdisciplinary seminar with two aspects: (1) current thought in the philosophy of a variety of academic fields. (2) Their implications for the broad field of education. Concentration will be upon development in the present century.

0801.595 INDIVIDUALIZED STUDY (3-6) Individually planned programs which will permit the student to engage in research and/or field experiences relative to his professional growth. Prerequisites: Admission by application to the Graduate Program Coordinator only.

0801.601 REPRESENTATIVE AMERICAN EDUCATORS (3) A biographical approach to the development of American Education through a selected group of American educators whose contributions have significantly shaped its form and substance from the colonial period to the present. Prerequisite: 0801.401 or equivalent.

0801.607 SEMINAR IN EDUCATIONAL CLASSICS I: ANCIENT PERIOD THROUGH THE RENAISSANCE (3) An in-depth study of the classical works of selected authors. Concentration on liberalizing and humanistic influences. A seminar paper will be developed by each student. Prerequisites: 0801.401 or 0801.402 or 0801.501.

0801.609 SEMINAR IN EDUCATIONAL CLASSICS II RENAISSANCE TO THE PRESENT (3) An in-depth study of the classical works of selected authors. Concentration on liberalizing and humanistic influences. Prerequisites: 0801.401 or 0801.402 or 0801.501.

0801.621 READING DISABILITIES (3) The content of this course includes the following: causes of reading disabilities; observation and interview procedures; standard and informal tests; report writing; diagnosis and correction of reading disabilities. Prerequisite: One undergraduate course in the teaching of reading.

0801.623 METHODS AND MATERIALS IN TEACHING READING IN THE ELEMENTARY SCHOOL (3) A course in the foundations of reading instruction. Covers trends in methods, materials, and individualized reading designs essential to the organization and administration of a developmental reading program. Prerequisite: One undergraduate course in the teaching of reading.

0801.625 CLINIC PRACTICUM IN READING (3) A clinical or laboratory experience. Students diagnose and

treat reading disability cases under the supervision of the directors of the reading program. Prerequisite: 0801.621 and 0801.623.

0801.626 MEASUREMENT AND EVALUATION OF READING (3) Theory and specific techniques of assessing reading programs within the schools, using instruments for evaluating students' specific reading skills, developing a diagnostic instrument for assessing students' performance, and interpreting standardized reading tests. Interpretation and utilization of statistical results will be stressed. Prerequisite: A course in tests and measurement or education statistics.

0801.627 EVALUATION OF READING RESEARCH (3) The student will be exposed to the tools of research and experimentation. The emphasis will be on past and present research relevant to reading. Prerequisite: Course in Tests and Measurement or Statistics and consent of instructor.

0801.629 SEMINAR IN READING (3) An advanced course to familiarize the student with interdisciplinary aspects of the reading process. The highlight of the course will be the team teaching aspect. Consultants such as psychologists, pediatricians, optometrists, guidance teachers, etc. will play an important role in this course. Prerequisite: 0801.621 and 0801.623.

0801.631 DIAGNOSIS AND EVALUATION OF READING DISABILITIES (3) Emphasis on the practical uses of standardized and non-standardized instruments and procedures for evaluating reading disabilities. Prerequisites: 0801.621 and 0801.623.

0801.641 SEMINAR IN LIABILITY FOR PROFESSIONALS IN EDUCATION (3) In-depth discussions of a great variety of emerging legal cases appropriate to liability among professionals in education. Emphasis will be given to such topics as: negligence, duty, abrogation of duty, foreseeability in loco parentis, sovereign immunity, suspension and expulsion, professional negotiations, evaluations, and student rights and responsibilities. Prerequisites: One course in school law.

0801.645 THEORIES IN EDUCATION ADMINISTRATION (3) Structures a theoretical and research base for the study of educational administration. Major topics include determining the purposes of educational organizations, defining educational policies, and task analysis. Prerequisites: teacher certification, three years teaching experience, nine graduate hours, 0803.643 or 0802.616.

0801.670-674 SPECIAL TOPICS IN EDUCATION: (Topic to be named) (1-3) In-depth study of a selected topic in Education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Approval by the appropriate graduate coordinator is required. Each topic may be taken as a separate course. Prerequisite: Will vary with each topic; approval of graduate coordinator required.

0801.691 INTRODUCTION TO RESEARCH IN EDUCATION (3) Research as a method for solving problems. Contributions of research to education. Prerequisite: Undergraduate course in Tests and Measurements, or Elementary Statistics, or consent of instructor.

0801.692 INTRODUCTION TO EDUCATIONAL EVALUATION (3) Theory, methods and techniques applicable to the systematic appraisal of an educational process, program, product, institution, or staff. The conceptual, hypothetical, and pragmatic basis for educational evaluation. Prerequisite: A course in statistics, or 2001.411.

0801.697 INTERNSHIP IN EDUCATION: (Assignment to be named) (1-6) An opportunity to relate theory and

practice through experience in such settings as educational institutions or clinics. Plans will be formulated in advance with the graduate coordinator and approved by the Dean of Graduate Studies. Prerequisite: Consent of graduate coordinator, who may require appropriate prerequisites.

0801.699 **MASTER EDUCATION THESIS (3)** Carefully executed investigation and accurate recording of a specific problem selected with reference to the student's professional goals and resources. Historical, descriptive, experimental, or action research can provide a single or multiple framework within which the student may work. Includes an outline of the proposed thesis submitted for inspection and approval by the Graduate Studies Committee, an application of techniques derived from the research course, and the guidance of Research Adviser.

0802.533 **READING AND LANGUAGE ARTS FOR GIFTED STUDENTS (3)** Teaching reading and language arts to gifted students, diagnosing levels and needs, evaluating programs, preparing an integrative unit, assessing techniques for teaching high level comprehension and study skills, and locating resources for high quality teaching. Prerequisite: 0801.417 or 0801.418 or 0802.427 or 0802.433 or consent of instructor.

0803.431 **DISCIPLINE AND CLASSROOM MANAGEMENT IN SECONDARY SCHOOLS (3)** Examination and analysis of approaches to maintain and improve discipline in secondary classrooms. Strategies to solve discipline problems and develop efficient classroom management and reduce sources of conflict between teacher and pupils. Prerequisite: Teaching experience or completion of student teaching.



English

Professors: BEVINS, COULTER, CRAVER (Chairperson),
FRIEDMAN, GUESS, HEDGES, HENRY, HUGHES, JONES
(Chairperson), PLANTE, SHEETS, THEARLE

Associate Professors: DOWLING, DOUGLAS, ECONOMOU,
FLOWER, HANSON, HATCHER, HILL, KOOMJOHN,
WOLKOWITZ, WOOD

Assistant Professors: AVERY, CONNOLLY, FRANKEL,
GISENDANNER, GNERRO, GREENE, HAHN, LEGAULT,
PRICE, WILKOTZ

Instructors: BASS, BEHM, BERGMAN, BURLEY, DOUGLAS,
FOSTER, LEWIS, LOTT, PALMER, SCHEYE, SOLEZ

To offer the broadest possible service and to meet the needs of the full range of students at the University, the English Department offers several different programs: 1) General Education requirements and electives, giving specific, practical training in the writing, reading and language skills necessary for a liberal education; 2) The English Major, for students in Liberal Arts and Teacher Education; 3) The English Major with a Concentration in Writing, for students who hope to use language skills in their careers; 4) The English Minor, for students who have an avocation for English but choose a different major; and 5) The Minor in World Literature, for students who wish to explore interdisciplinary relationships in the study of English, History, and Modern Languages. In addition, the Department supports General Studies concentrations in American Studies, Black Studies, Ethnic Studies, and Women Studies.

All courses offered by the English Department encourage an appreciation of literature through reading, analysis, and writing. Since authors deal with every subject of human interest, English courses explore the insights of all disciplines from the perspective of language and literature. As a result, many students add a concentration in English to their regular programs, and others elect courses in English to broaden their academic experience. Today, such study becomes increasingly important not only for fulfilling vocational requirements but also for meeting the demands of daily life.

Every student in the University must complete 1501.102 or 1501.104 (with a grade of C or better). In addition, the student may offer up to two additional courses (six credit hours) in partial fulfillment of Group I, B of the General University Requirements. All English courses except 1501.351, 365, 491, 494, and 499, and writing courses are available for Group I credit, subject only to the prerequisites indicated. The student may also select either 1501.331, 333, 334, 380, or 470 as the second writing course needed to complete Group IV, C of the General University Requirements. Any student may, of course, take additional elective credits in English.

Some students will be required to complete special competency courses in language and writing in addition to meeting General University Requirements in English. Certain foreign-born students will be required to complete English as a Second Language I, II, III as a prerequisite to enrollment in 1501.102, College Writing. Students whose entering scores indicate they need additional preparation to meet the standards of college-level expository writing will be required to complete either or both of two courses — 4901.110, Explorations in Communications Skills, and 4901.01, Preparation for College Writing — as prerequisite to enrollment in 1501.102, College Writing.

Departmental Office

Building — LI
Room — 219N
Phone — 321-2869

BACHELORS DEGREE — ENGLISH THE ENGLISH MAJOR

(For Students in Liberal Arts or Teacher Education)

Requirements

Major — Total 36

Lower-Division (100-200 level):

1501.102	College Writing	(3) _____
	OR	
1501.104	Advanced Freshman English	(3) _____
1501.204	English Literature I	(3) _____
1501.205	English Literature II	(3) _____
1501.233	Elements of Poetry	(3) _____

Upper-Division (300-400 level):

1501.351	Approaches to English Studies	(3) _____
	(Required of all students and recommended for Sophomore or Junior Year)	

One of the following:

1501.325	Historical Linguistics	(3) _____
1501.327	Structural Linguistics	(3) _____
1501.329	History of American English	(3) _____
1501.332	Comparative Grammar	(3) _____
1501.430	History of the English Language	(3) _____
1501.431	Structure of the English Language	(3) _____
1501.405	History of Literary Criticism	(3) _____

One of the following:

1501.410	Chaucer	(3) _____
1501.412	Milton and the Humanist Tradition	(3) _____
1501.415	Shakespeare (Comedies)	(3) _____
1501.416	Shakespeare (Tragedies)	(3) _____

At least one course in each of the following two groups:

Group A

1501.302	The English Renaissance	(3) _____
1501.303	The Later Renaissance	(3) _____
1501.319	English Medieval and Renaissance Drama	(3) _____
1501.320	English Drama — Restoration to Shaw	(3) _____
1501.340	Medieval Literature	(3) _____
1501.345	18th-Century English Literature	(3) _____
1501.422	Development of the English Novel I	(3) _____

Group B

1501.309	American Drama	(3) _____
1501.335	Literature of The English Romantic Period	(3) _____
1501.337	Victorian Prose and Poetry I	(3) _____
1501.338	Victorian Prose and Poetry II	(3) _____
1501.423	Development of the English Novel II	(3) _____
1501.427	Literature of the American Romantic Period	(3) _____
1501.428	Literature of the American Realistic Period	(3) _____
1501.435	American Short Story	(3) _____
1501.445	19th Century American Novel	(3) _____
1501.447	Major American Poets to 1900	(3) _____

From the courses listed above or from any department offering, the student must elect one upper-division course in American Literature. The student will need nine more credit hours of upper-division work to complete the 36 hours for the major.

THE ENGLISH MAJOR WITH A CONCENTRATION IN WRITING

Requirements

MAJOR — Total 42

Lower-Division Requirements (100-200 level):

1501.102	College Writing	(3) _____
	OR	
1501.104	Advanced Freshman English	(3) _____
1501.204	Survey of English Literature I	(3) _____
1501.205	Survey of English Literature II	(3) _____

Upper-Division Requirements (300-400 level): one of the following:

1501.325	Historical Linguistics	(3) _____
1501.327	Structural Linguistics	(3) _____
1501.329	History of American English	(3) _____
1501.332	Comparative Grammar	(3) _____
1501.405	History of Literary Criticism	(3) _____
1501.410	Chaucer	(3) _____
1501.412	Milton and the Humanist Tradition	(3) _____
1501.415	Shakespeare (Comedies)	(3) _____
1501.416	Shakespeare (Tragedies)	(3) _____
1501.430	History of the English Language	(3) _____
1501.431	Structure of the English Language	(3) _____

At least one course in each of the following two groups:

Group A

1501.302	The English Renaissance	(3) _____
1501.303	The Later Renaissance	(3) _____
1501.319	English Medieval and Renaissance Drama	(3) _____
1501.320	English Drama — Restoration to Shaw	(3) _____
1501.340	Medieval Literature	(3) _____
1501.345	18th Century English Literature	(3) _____
1501.422	Development of the English Novel I	(3) _____

Group B

1501.309	American Drama	(3) _____
1501.335	Literature of the English Romantic Period	(3) _____
1501.337	Victorian Prose and Poetry I	(3) _____
1501.338	Victorian Prose and Poetry II	(3) _____
1501.423	Development of the English Novel II	(3) _____
1501.427	Literature of the American Romantic Period	(3) _____
1501.428	Literature of American Realistic Period	(3) _____
1501.435	American Short Story	(3) _____
1501.445	19th Century American Novel	(3) _____
1501.447	Major American Poets to 1900	(3) _____

Four Upper-Level writing courses, to be selected from the following:

1501.331	Advanced Composition	(3) _____
1501.333	Writing for Business and Industry	(3) _____
1501.334	Advanced Information Writing	(3) _____
1501.380	Creativity and Style in Writing Non-Fiction	(3) _____
1501.383	Writing Poetry	(3) _____
1501.385	Writing Fiction	(3) _____
1501.437	British and American Prose	(3) _____
1501.470	Topics in Writing	(3) _____

The student will need 12 more credits in English, with at least 6 in upper-level literature courses, to complete the 42 hours required for the writing concentration.

MINOR IN ENGLISH

Requirements

Minor — Total 24

1501.102	College Writing	(3) _____
	OR	
1501.104	Advanced Freshman English	(3) _____

Six hours at the 200 level:

_____	(3) _____
_____	(3) _____

Six hours at the upper or lower levels:

_____	(3) _____
_____	(3) _____

Nine hours at the upper levels:

_____	(3) _____
_____	(3) _____
_____	(3) _____

Apart from College Writing, 1501.102 (or 1501.104), no specific courses are stipulated. The one additional requirement is that students must work with departmental advisors to design programs which, while individually tailored, will be coherent and purposeful.

MINOR IN WORLD LITERATURE

Requirements

Minor — Total 24

Lower-Division Requirements (100-200 level — 6 hours¹)

1501.102	College Writing	(3) _____
	OR	
1501.104	Advanced Freshman English	(3) _____
1501.201	World Literature I	(3) _____
	OR	
1501.202	World Literature II	(3) _____

Upper-Division Requirements (300-400 level) — 6 hours

1501.301	Topics in World Literature	(3) _____
1501.312	World Drama I	(3) _____
1501.313	World Drama II	(3) _____
1501.321	Modern Drama	(3) _____
1501.323	The Continental Novel	(3) _____
1501.326	Myth and Literature	(3) _____
1501.328	History and Literature of the Old Testament	(3) _____
1501.347	Folklore and Literature	(3) _____
1501.405	History of Literary Criticism	(3) _____
1501.407	Modern Poetry	(3) _____
1501.408	Modern Fiction to World War II	(3) _____
1501.409	Modern Fiction Since World War II	(3) _____

Lower-Division Electives (100-200 level) — up to 6 hours

1501.210	Introduction to Folklore	(3) _____
1501.213	Ideas in Literature	(3) _____
1501.226	Introduction to Classical Mythology	(3) _____
1501.235	The Continental Short Story	(3) _____
1501.237	The Novella in European and Russian Literature	(3) _____

Modern Language 202 (fourth semester) Intermediate

2205.101	Introduction to Ancient Civilization ²	(3) _____
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¹ Up to twelve hours of upper-division English may be offered; up to six hours of upper-division non-English may be offered.

² Only one three-credit course in History may be offered to fulfill requirements for the Minor.

2205.241	History of European Civilization I OR	(3)_____
2205.242	History of European Civilization II	(3)_____
<i>Upper-Division Electives¹</i>		
1501.301	Topics in World Literature	(3)_____
1501.312	World Drama I	(3)_____
1501.313	World Drama II	(3)_____
1501.321	Modern Drama	(3)_____
1501.323	The Continental Novel	(3)_____
1501.326	Myth and Literature	(3)_____
1501.328	History and Literature of the Old Testament	(3)_____
1501.347	Folklore and Literature	(3)_____
1501.405	History of Literary Criticism	(3)_____
1501.407	Modern Poetry	(3)_____
1501.408	Modern Fiction to World War II	(3)_____
1501.409	Modern Fiction Since World War II	(3)_____

History: any course directly related to the student's major and approved for credit towards the Minor in World Literature by the World Literature and Linguistics Division Chairperson.² (3)_____

Philosophy, Art, etc.: Any course directly related to a student's major and approved for credit towards the Minor in World Literature by the World Literature and Linguistics Chairperson. (e.g. Italian Major may offer a course in Renaissance Art.) (3)_____

Advising

All students in major or minor programs must register with the Department and are urged to consult with their departmental advisors in planning each semester's course of study.

Foreign Language

The Department strongly recommends that students who plan to enter graduate study in English earn a B.A. by completing the intermediate level of a foreign language.

Transfer Credit

The English Department freely accepts English credits from accredited Colleges and Universities. However, to meet General University Requirements, a student must either present 3 transfer credits in a college level composition course, with a grade of C or better, or earn a C or better in 1501.102 at Towson State University. Students registering in the Department's major and minor programs must complete a minimum of 12 credits in English Department offerings at Towson State University.

Teacher Education Program for English Majors

The Education Department requires that a student preparing to teach English take either 1501.332 Comparative Grammar or 1501.431 Structure of the English Language. It strongly recommends an additional linguistics course, experience with mythology or folklore, an advanced writing course, and study of a minority literature.

Advanced Placement and Credit for Prior Experience

The English Department participates in the Advanced Placement Program of the University. A selected number of entering Freshmen are placed in 1501.104 rather than in 1501.102. It also offers credit for most courses through the Credit for Previous Learning or Experience Program. Students applying for credit under this program complete an examination, an interview, and a paper in the area.

¹ Up to twelve hours of upper-division English may be offered; up to six hours of upper-division non-English may be offered.

² Only one three-credit course in History may be offered to fulfill requirements for the Minor.

Honors in English, Dual Major, and Graduate Program

The English Department participates in the University Honors Program. Students interested in completing an English Major with Honors should consult no later than first semester of the Junior year with one of the Department Co-Chairs.

Students who major in one of the other programs of the University, yet retain a strong interest in language, literature, or writing, are urged to explore with one of the Department Co-Chairs the possibility of completing a dual major.

The Department now supports a post-baccalaureate degree, the Master of Education in Secondary Education with Specialization in English (see *Graduate Bulletin* for description of requirements).

English Course Prerequisites

1501.102 or 1501.104 is prerequisite to all other English courses. The second course will be one of the following: 1501.201, 1501.202, 1501.204, 1501.205, 1501.211, 1501.212, 1501.213, 1501.251, 1501.252, or 1501.272. Concurrently with these courses, a student may take any lower-division (200-level) elective in English. Two lower-division English courses, including 1501.102 or 104, are prerequisite to registration for most upper-division (300-400 level) English courses (exceptions are noted in the course descriptions following).

ENGLISH COURSES (1501)

Lower Division — Undergraduate

4901.101 PREPARATION FOR COLLEGE WRITING (3) Review of grammar, sentence structure, and paragraph development. The course is a prerequisite to 1501.102 for students whose entering scores indicate they need additional preparation for college-level writing. Course does not carry credit toward graduation (graded under S/U procedure). Prerequisite: Department Placement.

4901.113 ENGLISH AS A SECOND LANGUAGE: GRAMMAR REVIEW (5) A comprehensive review of the fundamentals of English grammar. Course does not carry credit toward graduation (graded under S/U procedure). prerequisite: Students must be non-native speakers of English. Admission by examination and permission of ESL Committee.

4901.114 ENGLISH AS A SECOND LANGUAGE: INTERMEDIATE (3) Advanced grammar review with emphasis on sentence and short-paragraph construction. Prerequisite: 4901.113 or consent of ESL Committee.

4901.115 ENGLISH AS A SECOND LANGUAGE: ADVANCED (3) Introduction to English style; emphasis on reading and writing skills, with attention to increased proficiency in conversation, as necessary. Prerequisite: 4901.114 or permission of ESL Committee.

1501.102 COLLEGE WRITING (3) Review of grammar; study of paragraphs; reading and writing of essays, with special emphasis on patterns of organization.

1501.104 ADVANCED FRESHMAN ENGLISH (3) Readings in expository and imaginative literature, short compositions, and research experience. Open only to freshmen selected by the English Department on the basis of superior high school records and aptitude test scores; for them 1501.104 replaces 1501.102.

1501.202 READINGS IN WORLD LITERATURE I, II (3, 3) First Semester — European writings in translation from the time of Homer to the Renaissance; second semester

ter—European writings in translation from the Renaissance to 1900.

- 1501.204 ENGLISH LITERATURE I (3) A survey of English poetry, prose, and drama from the Middle Ages through the eighteenth century, especially the work of Chaucer, Shakespeare, Milton, Pope, and Swift.
- 1501.205 ENGLISH LITERATURE II (3) A survey of English poetry and prose of the nineteenth and early twentieth centuries.
- 1501.210 INTRODUCTION TO FOLKLORE (3) Aspects of folklore relevant to literature. Emphasis on the various forms and materials of folk narrative (fairy tale, legend, etc.) Focus on English, Irish, and American tales; other countries considered. Ethnic folklore, proverbs, superstitions, and folklore archaeology included according to student interest.
- 1501.211 AMERICAN LITERATURE I (3) Major writers and literary movements from the Colonial Period to the Civil War.
- 1501.212 AMERICAN LITERATURE II (3) Major writers and literary movements since the Civil War.
- 1501.213 IDEAS IN LITERATURE (3) A thematic approach to selected American, British, and World Literature. Variation in content; may be re-elected once for credit in a different theme.
- 1501.224 ELEMENTS OF FICTION (3) A study of the basic conceptual tools for analysis of the short story. The goal is to help the students understand fiction on their own.
- 1501.226 INTRODUCTION TO CLASSICAL MYTHOLOGY (3) The study of myth in selected works from Greek and Roman literature.
- 1501.233 ELEMENTS OF POETRY (3) Study of reading and interpretation of poetry, with emphasis on imagery, diction, sound patterns, stanzaic form, and the major modes and genres.
- 1501.235 THE CONTINENTAL SHORT STORY (3) Study of the trends and styles of short fiction as expressed by major continental writers such as Dostoevsky, Tolstoy, Kafka, Brecht, Mann, Gide, Camus, Sartre, Pirandello, Moravia, and Silone.
- 1501.237 THE NOVELLA IN EUROPEAN AND RUSSIAN LITERATURE (3) Study of the 19th and 20th Century European and Russian Short Novel. Readings in such authors as Maupassant, Tolstoy, Andreiev, Gide, Faulbert, Mann, Moravia, Dostoevsky, Hesse, Balzac, Chekov, Kafka, and Solzhenitsyn.
- 1501.243 ELEMENTS OF DRAMA (3) Study of the kinds of drama and of the structure of drama, with emphasis on theme, plot, setting, characterization, language, spectacle.
- 1501.251 BLACK AMERICAN LITERATURE I (3) Introductory survey of Black American Literature, covering slave narratives, post civil war and twentieth century developments and writers.
- 1501.252 BLACK AMERICAN LITERATURE II (3) Concentration in specific historical periods and genres. The literature of slavery, the Reconstruction, the Harlem Renaissance, the Depression and after. 251 is recommended but not required as a prerequisite to 252.
- 1501.261 ETHNIC-AMERICAN LITERATURE (3) Comparative survey of Asian, Black, Italian, Jewish, and other immigrant-American literature. Literary, historical, and sociological approaches stressed.

- 1501.271 THEMES IN AMERICAN LITERATURE (3) Examination of a theme in American literature such as Rebels and Victims, Americans Abroad, American Dream and Nightmare. Variation in content; may be re-elected once.

- 1501.283 INTRODUCTION TO IMAGINATIVE WRITING (3) Theories and technical considerations pertinent to writing poetry and fiction, with discussion of student writing. Consent of instructor. Offered by Department on a S/U basis.

Upper Division — Undergraduate Only

- 1501.331 ADVANCED COMPOSITION (3) Practice in expository (non-fiction) writing, in group and individual sessions. Emphasis on organization, evidence (examples), basic correctness, and style, plus attention to individual student needs.
- 1501.333 WRITING FOR BUSINESS AND INDUSTRY (3) Various forms of writing for business and industry. Projects include correspondence, abstracts, reports, and the journal article individualized to suit the student's background and interest.
- 1501.334 ADVANCED INFORMATION WRITING (3) Techniques for gathering and presenting information through the report. Projects individualized to meet the needs of students in a variety of disciplines.
- 1501.351 APPROACHES TO ENGLISH STUDY (3) Methods of investigation in literature and critical approaches to literature.
- 1501.380 CREATIVITY AND STYLE IN WRITING NON-FICTION (3) Theory and practice to help students develop creativity and personal style in their expository (non-fiction) writing. Attention to concreteness, tone, imagery, connotation, sentence effectiveness, logic. Prerequisite: 2 English courses and consent of instructor.
- 1501.383 WRITING POETRY (3) The nature of the creative process and the art of imaginative expression as they apply to writing poetry. Consent of instructor. Offered by Department on a S/U basis.
- 1501.385 WRITING FICTION (3) The nature of the creative process and the art of imaginative expression as they apply to writing fiction. Consent of instructor. Offered by Department on a S/U basis.
- 1501.397 ENGLISH PRACTICUM (3-9) Students are required to work in assigned projects in actual job environments. Priority will be given to seniors. Open to highly qualified juniors. May be re-elected for a maximum total of nine credit hours. Credit received for Practicum may not be applied towards hours necessary to complete the English major. Prerequisite: Junior standing, major in English, and consent of department chairperson.
- 1501.470 TOPICS IN WRITING (3) Specialized topics for writers of non-fiction, fiction, and poetry. Topics vary from semester to semester. May be re-elected for credit in different topic.

Upper Division — Undergraduate and Graduate

- 1501.302 THE ENGLISH RENAISSANCE (3) A study of Renaissance poetry and prose with emphasis on the cultural, political, and artistic background of the time.
- 1501.303 THE LATER RENAISSANCE (3) Emphasis upon major 17th century intellectual and literary currents in the poetry of love, meditation, social/political affairs; beginnings of the modern world reflected in the prose.
- 1501.309 AMERICAN DRAMA (3) A study of the American drama from the beginning to the present.

- 1501.312 WORLD DRAMA I (3) An historical and critical study of world drama and the cultural forces which produced it from the ancient Greeks to the Neo-Classical period.
- 1501.313 WORLD DRAMA II (3) An historical and critical study of world drama and the cultural forces which produced it from the Neo-Classical period to the late nineteenth century.
- 1501.319 ENGLISH MEDIEVAL AND RENAISSANCE DRAMA (3) Development of the English Drama from the Middle Ages through the Renaissance, excluding Shakespeare.
- 1501.320 ENGLISH DRAMA FROM THE RESTORATION TO SHAW (3) Development of the English Drama in the seventeenth, eighteenth, and nineteenth centuries.
- 1501.321 MODERN DRAMA (3) Critical reading of British, American, and European plays of the late nineteenth century and the twentieth century.
- 1501.323 THE CONTINENTAL NOVEL (3) A study of major continental novels in translation. Emphasis will be upon related and comparative elements in the novels of writers of France, Germany, Italy, and other European countries.
- 1501.325 HISTORICAL LINGUISTICS (3) An introduction to language typology and Indo-European philology; historical development of linguistics up to the twentieth century.
- 1501.326 MYTH AND LITERATURE (3) Literary interpretations of themes and figures from Greek and Roman mythology.
- 1501.327 STRUCTURAL LINGUISTICS (3) A study of the developments in linguistic theory in the twentieth century; major figures, DeSaussure, Sapir, Bloomfield, Trubetzkoy, Chomsky.
- 1501.328 HISTORY AND LITERATURE OF THE OLD TESTAMENT (3) The chief books of the Old Testament and the Apocrypha studied from a literary and historical point of view.
- 1501.329 HISTORY OF AMERICAN ENGLISH (3) Origins and history of American dialects; development of elements of vocabulary, sounds, and grammar which distinguish American English; standards of American English.
- 1501.332 COMPARATIVE GRAMMAR (3) Study of English grammar: traditional, structural, transformational.
- 1501.335 LITERATURE OF THE ENGLISH ROMANTIC PERIOD (3) A study of major writers from 1790 to 1830 with emphasis on the philosophic and social background of the period.
- 1501.337 VICTORIAN PROSE AND POETRY I (3) A study of the works of Tennyson, Arnold, and the Victorian "prophets" — Macaulay, Carlyle, Newman, and Mill.
- 1501.338 VICTORIAN PROSE AND POETRY II (3) A study of the works of Browning, Ruskin and the Pre-Raphaelites, Pater, Hardy, Housman, and Yeats.
- 1501.340 MEDIEVAL LITERATURE (3) English literature during the Middle Ages, with emphasis on the mystical writers, Piers Plowman, the Gawain-poet, and Arthurian literature.
- 1501.345 EIGHTEENTH-CENTURY ENGLISH LITERATURE (3) A study of the social backgrounds, literary trends, and significant authors, especially Swift, Pope, Johnson, and Boswell.
- 1501.347 FOLKLORE AND LITERATURE (3) How and why literary artists draw plots, characters, themes, and style from ancient folk tradition: the anonymous oral narratives, songs, jests, and proverbs that circulate in all cultures. Focus on universal folkloric material in such works as the Bible, Aesop's Fables, the Arabian Nights, Peer Gynt, and Harvest Home.
- 1501.401 THE LITERATURE OF BLACK AMERICA (3) Emphasis on major writers: Chesnut, Hughes, Wright, Ellison, Baldwin, McKay.
- 1501.405 HISTORY OF LITERARY CRITICISM (3) A study of the major statements in literary theory from Aristotle to the present.
- 1501.407 MODERN POETRY (3) Works of the important twentieth century poets.
- 1501.408 MODERN FICTION TO WORLD WAR II (3) Work of the modern masters of fiction, with emphasis on Proust, Mann, and Joyce.
- 1501.409 MODERN FICTION SINCE WORLD WAR II (3) Works of the significant writers — English, American, and Continental — of the past thirty years, including such figures as Grass, Robbe-Grillet, Solzhenitsyn, and Burgess.
- 1501.410 CHAUCER (3) A study of the major poetry.
- 1501.412 MILTON AND THE HUMANIST TRADITION (3) Study of the major poetry and some representative prose with emphasis upon Milton's place in the humanist tradition.
- 1501.415 SHAKESPEARE (COMEDIES) (3) Shakespeare's development as a poet and a dramatist during the period of the comedies and historical plays.
- 1501.416 SHAKESPEARE (TRAGEDIES) (3) The great tragedies and the late romantic comedies of Shakespeare.
- 1501.419 THE TWENTIETH-CENTURY BRITISH NOVEL (3) Survey of the British novel from Conrad to the present.
- 1501.420 TWENTIETH-CENTURY BRITISH POETRY (3) Survey of British poetry from Hopkins to the present.
- 1501.422 DEVELOPMENT OF THE ENGLISH NOVEL I (3) Antecedents to the English novel; the novel as a literary genre; study of representative eighteenth-century English novels.
- 1501.423 DEVELOPMENT OF THE ENGLISH NOVEL II (3) The novel as a literary genre; study of representative nineteenth-century English novels.
- 1501.427 LITERATURE OF THE AMERICAN ROMANTIC PERIOD (3) Major writers, social and political background, important literary ideas, and criticism.
- 1501.428 LITERATURE OF THE AMERICAN REALISTIC PERIOD (3) Major writers (Dickinson, Twain, Crane, James), important secondary writers, social and political backgrounds, important literary ideas, and criticism.
- 1501.430 HISTORY OF THE ENGLISH LANGUAGE (3) Changes and reasons for the changes in grammar, sound, and vocabulary of the language from Old English to modern times.
- 1501.431 STRUCTURE OF THE ENGLISH LANGUAGE (3) A linguistic approach to sounds, forms, syntax, and usage.
- 1501.435 AMERICAN SHORT STORY (3) A study of the American short story from the beginning to the present.
- 1501.437 BRITISH AND AMERICAN PROSE (3) A study of English and American non-fictional prose, with emphasis on form and style.

- 1501.445 NINETEENTH-CENTURY AMERICAN NOVEL (3) A study of major American novelists of the nineteenth century with emphasis on Cooper, Melville, Hawthorne, Howells, James, Crane, and Norris.
- 1501.446 TWENTIETH-CENTURY AMERICAN NOVEL (3) A study of the major American novelists of the twentieth century with emphasis on James, Fitzgerald, Hemingway, Faulkner, Malamud, Bellow, Barth, and Nabokov.
- 1501.447 AMERICAN POETRY THROUGH ROBERT FROST (3) A study of American poetry from its Puritan beginnings through the early twentieth century. Emphasis on major figures: Emerson, Poe, Whitman, Dickinson, Frost.
- 1501.448 TWENTIETH-CENTURY AMERICAN POETRY (3) A study of major poets and poetic movements from Imagism and T. S. Eliot to contemporary poetry in open forms.
- 1501.471 TOPICS IN WORLD LITERATURE (2-3) Consideration of special figures, periods, genres, or conventions. Variation in content from year to year; may be re-elected.
- 1501.472 TOPICS IN ENGLISH LITERATURE (2-3) Consideration of special figures, periods, genres or conventions. Variation in content from year to year; may be re-elected.
- 1501.473 TOPICS IN AMERICAN LITERATURE (2-3) Consideration of special figures, periods, genres, or conventions. Variation in content from year to year; may be re-elected.
- 1501.474 TOPICS IN WOMEN'S STUDIES (3) Examination of selected literature by and/or about women. Variation in content, with focus on fiction, drama, or poetry in different semesters; may be re-elected.
- 1501.475 TOPICS IN MULTI-ETHNIC AMERICAN LITERATURE (3) A study of Ethnic-American literature. Possible topics include Women in Ethnic literature, Jewish writers, the Catholic novel. Variation in content; may be re-elected.
- 1501.476 TOPICS IN LINGUISTICS (3) Topics and issues in contemporary linguistics theory, with particular attention to recent interdisciplinary subspecialty developments: psycholinguistics, sociolinguistics, pedagogic linguistics, etc. Topics to vary; may be re-elected. Prerequisite: One linguistics course or consent of the instructor.
- 1501.485, 486 SEMINAR IN ENGLISH STUDIES I, II (3,3) Thorough study of one major area of English, American, or World literature (author, period, movement, etc.) not available through other electives. Areas vary from

semester to semester; may be taken one or two semesters. Prerequisites: junior standing and consent of instructor.

- 1501.491 DIRECTED READING IN ENGLISH (2-4) Independent reading in literature or in related disciplines dealing with the specific periods, topics, problems, or comparative developments of literature. Topic selected by student in consultation with the instructor. May be repeated for credit. Prerequisites: 18 hours in English, or 12 hours in English and 6 in a related discipline; minimum 3:00 averages in English and the related discipline; consent of Department chairperson and instructor.
- 1501.494 TRAVEL AND STUDY (3-6) Countries and topics to be selected by student in consultation with instructor. See the chairperson for details at least one year before intended journey.
- 1501.499 HONORS THESIS (4-7) An in-depth treatment of a topic chosen by the student in consultation with his/her Thesis advisor. Thesis proposal subject to approval of College Honors Board. Subject areas include literary criticism (any methodology), creative writing (any genre), expository writing. Prerequisites: Restricted to candidates for Honors in English.

Graduate Division

- 1501.521 STUDIES IN ENGLISH LITERATURE (3) Thorough study of one major area of English Literature (author, period, movement, etc.). Areas covered vary from semester to semester. Substantial research required. Prerequisite: Graduate standing.
- 1501.523 STUDIES IN LITERARY CRITICISM (3) Thorough study of one major area of Literary Criticism (author, period, movement, etc.). Areas covered vary from semester to semester. Substantial research required. Prerequisite: Graduate standing.
- 1501.525 STUDIES IN AMERICAN LITERATURE (3) Thorough study of one major area of American Literature (author, period, movement, etc.). Areas covered vary from semester to semester. Substantial research required. Prerequisite: Graduate standing.
- 1501.527 STUDIES IN WORLD LITERATURE (3) Thorough study of one major area of World Literature (author, period, movement, etc.). Areas covered vary from semester to semester. Substantial research required. Prerequisite: Graduate standing.
- 1501.531 STUDIES IN LINGUISTICS (3) Topics in the technology and philosophy of language: descriptive grammar, psycholinguistics, sociolinguistics, etc. Topic to vary. May be repeated as topics change. Prerequisite: Graduate standing.

Geography and Environmental Planning

Professors: FIRMAN

Associate Professors: DIFFENDERFER (Choirperson),
MARTIN, McKIM

Assistant Professors: DILISIO, HAYUK, SCOTT, STEVENSON

Instructors: HADDOCK

The Department offers a major and a minor in geography. The purpose of the major is to encourage the student to explore the discipline in some depth. Such investigation, performed well, leads to an appreciation of the structure and function of the subject, prepares the student for graduate work, and offers background for many careers particularly in private industry, planning, government service, and teaching. The student is also expected to take correlative courses which broaden his academic background and offer valuable insights into the subject.

Departmental Office

Building — LI

Room — 20

Phone — 321-2971

BACHELORS DEGREE . . . GEOGRAPHY

Requirements

MAJOR — total — 30 credit hours

9 credit hours — at the 100-200 level

_____	(3) _____
_____	(3) _____
_____	(3) _____

9 credit hours of Systematic or Technique Courses

_____	(3) _____
_____	(3) _____
_____	(3) _____

12 credit hours of Regional, Seminars or Special Courses

_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____

MINOR — total — 18 credit hours

6 credit hours — at the 100-200 level

_____	(3) _____
_____	(3) _____

12 credit hours — from 300-400 level courses

_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____

The Bachelor of Arts Degree may be earned by adding a foreign language to the major course requirements. This requirement can be met by completing the intermediate course of a modern foreign language or its equivalent.

Transfer Students

Geography majors may transfer up to 12 hours toward a major and must earn 18 credit hours of upper division courses at Towson.

Geography minors may transfer up to six hours toward a minor and must earn 12 credit hours of upper division courses at Towson.

Master of Arts in Geography

The Master of Arts in Geography is designed for students who are primarily interested in an advanced degree.

Masters in Education (emphasis in geography, see Secondary Education).

Requirements

1. Undergraduate Requirements

- At least an undergraduate minor in Geography or the equivalent.
- At least a "B" grade average in the geography courses presented for admission.
- The Graduate Record Examination may be requested at the option of the Geography Department.
- Applicants not meeting the above requirements may be admitted conditionally in accordance with the Graduate Division regulations concerning conditional admission.

2. Requirements for the Degree

Fulfillment of all requirements will be at the discretion of the department. A program of study will be prepared by each student in consultation with his advisor and will be presented to the Graduate Committee of the Department of Geography and Environmental Planning for approval.

All students must present evidence of at least a fourth semester of college level competency in one modern language OR Geography 2206.375 (or an approved equivalent) plus at least one other approved course in statistics or computer techniques. Students may elect one of the following two plans of study.

a. Plan A. Master of Arts with Thesis

- Completion of a total of at least 30 semester hours of geography, 6 of which will be met by a thesis.
- At least 15 semester hours of geography must be earned at the 500-600 levels.
- A thesis in geography which demonstrates the student's ability to do independent research.
- Course requirements for the Degree
 - One Graduate Geography Seminar Course (3 hrs.)
 - Geography 2206.521 (3 hrs.)
 - Geography 2206.699 (6 hrs.)
 - Electives planned with advisor (18 hrs.)

b. Plan B. Master of Arts without a Thesis

- Completion of at least 36 semester hours of geography.
- At least 18 semester hours in geography must be earned at the 500-600 levels.
- Course requirements
 - One Graduate Geography Seminar Course (3 hrs.)
 - Geography 2206.521 (3 hrs.)
 - Electives planned with advisor (30 hrs.)

3. Advancement to Degree Candidacy Examination

An examination is required for Advancement to Degree Candidacy. The examination may be taken after completion of 9 semester hours (6 hours of which must

be at the 500 and 600 levels) and may not be taken later than the semester following the one in which 15 hours are completed. Part of the examination may be conducted orally.

4. Comprehensive Examination

The department maintains the right to require a Comprehensive Examination at the conclusion of all other degree requirements.

GEOGRAPHY COURSES (2206)

Lower Division — Undergraduate

2206.101 PHYSICAL GEOGRAPHY (3) Introductory topical studies of fundamental natural and selected cultural phenomena in man's environment. Emphasis on climate, landforms, soils, vegetation, and minerals. No prerequisite.

2206.102 WORLD REGIONAL GEOGRAPHY (3) Introductory regional studies of man in relation to his natural and cultural environments. Emphasis is on the distinctive and comparative nature of major regions; man's utilization of resources. No prerequisite.

2206.109 INTRODUCTION TO HUMAN GEOGRAPHY (3) Uses the analytical approach of social sciences in the study of institutions of human society to reveal spatial patterns in the responses of men to basic problems and needs. No prerequisite.

2206.121 INTERPRETATION OF MAPS (3) Introduction to map elements and map interpretation; study of various types of maps, index systems, and general application of maps in geography. No prerequisite.

2206.251 INTRODUCTION TO URBAN PLANNING (3) The sequential origins of planning and urban design, a study of contemporary planning practice, and an analysis of the social, economic and political context of plan formulation and implementation. No prerequisite.

2206.299 INTRODUCTION TO SOURCE MATERIALS AND RESEARCH IN GEOGRAPHY (3) Designed to provide the student with a basic working knowledge of research materials; study and review of principal reference literature, journals, and other sources of data used in geographic field and library research. Students may be required to do field work. No prerequisite.

Upper Division — Undergraduate and Graduate

SYSTEMATIC COURSES

2206.319 SOILS AND VEGETATION (3) A resource study of the world's soil and plant formations with emphasis placed upon their genesis and spatial differentiations. Prerequisite: 6 hours of Geography, 1905.101, 0401.101 or 105.

2206.329 MEDICAL GEOGRAPHY (3) A study of the health problems viewed as imbalances in the interrelationships between man and elements of his environment, both the physical and cultural. Emphasis is placed on gaining an overview of the field through a comprehension of the application of geographic principles and techniques to the study of human health problems. Prerequisite: Six hours of geography or consent of the instructor.

2206.351 URBAN DESIGN — MAN-SPACE-ENVIRONMENT (3) The physical planning process at the immediate, perceptual level. The relation of environment and behavior is explored, different urban areas are analyzed and a short design problem will be assigned. Prerequisite: 2206.101-102 or consent of the instructor.

2206.353 PRINCIPLES OF ZONING (3) Introduction to the field of zoning: applicable to studies in urban geography, planning, real estate, and sociology. Topics covered include: background of zoning, principle uses, limitations, regulations, adoption procedures, and related problems. Prerequisite: 6 hours of Geography or consent of instructor.

2206.355 HISTORICAL GEOGRAPHY OF URBANIZATION (3) Spatial and temporal development of urbanization and urban morphology from the rise of civilization in the ancient Near East to the contemporary post industrial city. The entire scope of urban functions is surveyed, with the emphasis on the city as a man-made environment. Prerequisite: Six hours of geography or consent of instructor.

2206.357 (221) CULTURAL GEOGRAPHY (3) Study of origins and diffusion of cultures and the resulting impact in creating the world's contrasting cultural landscapes. Not open to those who completed 2206.221. Prerequisite: 6 hours of Geography or consent of instructor. (Undergraduate credit only.)

2206.359 (231) ECONOMIC GEOGRAPHY (3) Designed to explain the location of economic activities through a series of principles and theories. Emphasis is on the various sectors of the economy, transportation, and economic development. Not open to those who completed 2206.231. Prerequisite: 6 hours of Geography or consent of instructor. Undergraduate credit only.]

2206.361 ADVANCED ECONOMIC GEOGRAPHY (3) Studies mainly of the secondary and tertiary industries with some emphasis on quantitative analyses of selected economic activities. Prerequisite: Six hours of Geography including 2206.359.

2206.363 SPATIAL ORGANIZATION OF ECONOMIC ACTIVITY (3) Provides an intermediate level coverage of the organization of the economy in space. Draws from basic regional economics to illustrate and explain the geographical patterns of land use, industry, service activities, and regional patterns of economic development. Prerequisite: Six hours of geography including 2206.359.

2206.371 ADVANCED PHYSICAL GEOGRAPHY (4) Detailed analysis of characteristics, distribution, and geographical significance of the earth's physical features. Prerequisite: Six hours of Geography or consent of instructor.

2206.373 CLIMATOLOGY (3) Character, causes, and distribution of climatic types. Emphasis upon world patterns. Students may be required to do field work. Prerequisite: Six hours of Geography or consent of instructor.

2206.375 QUANTITATIVE METHODS IN GEOGRAPHY (3) Focus on statistical problems associated with the analysis of geographic data. Emphasis on the unique spatial problems of point pattern analysis, areal association, and regionalization. Prerequisite: Six hours of Geography, 1701.119, or consent of instructor.

2206.377 DESCRIPTIVE METEOROLOGY (4) An introduction to the various meteorological elements. Emphasis is placed on the interaction of temperature, pressure, wind, and moisture in creating weather patterns. Three hours of lecture and two hours of laboratory. Field work may be required. Prerequisites: Six hours of Natural Science or Geography or the equivalent.

2206.381 POLITICAL GEOGRAPHY (3) Effect of political groupings upon man's use of the world, and the influence of the geographic base upon political power. Prerequisite: Six hours of Geography or consent of instructor.

2206.385 **POPULATION AND SETTLEMENT (3)** Regional analysis of environmental resource factors contributing to various population densities and the resultant settlement patterns of man's use of the land. Prerequisite: Six hours of Geography or consent of instructor.

2206.391 **URBAN SYSTEMS I (3)** Survey of the structure, functions, forms and development of urban units. Emphasis upon the locational features of social, economic, and cultural phenomena. Field work. Prerequisite: Six hours of Geography or consent of instructor.

2206.392 **URBAN SYSTEMS II (3)** An in-depth treatment of transportation systems, land-use patterns, public facilities, recreation needs, and development of open space. Emphasis upon environmental planning and planning implementation. Prerequisite: 2206.391.

2206.401 **GROWTH OF GEOGRAPHIC THOUGHT (3)** History, nature, and methodology of geography as a discipline. Analysis of schools of geographic thought; critical evaluation of important geographic work. Prerequisite: Six hours of Geography or consent of instructor.

2206.403 **PLANNING IMPLEMENTATION (3)** A study of the techniques involved in carrying out an urban plan. Zoning, subdivision control, public works policy and tax structures will be considered. The relation of planning to the political process will be emphasized. Prerequisite: 2206.391 and 2206.392 or equivalent and consent of instructor.

2206.405 **COMPREHENSIVE PLANNING (3)** The integration of separate urban systems into the comprehensive design of an urban region. Special emphasis will be placed on neighborhood, community and town planning. Field work may be required. Prerequisite: 2206.391 and 2206.392 or equivalent and consent of instructor.

TECHNIQUE COURSES

2206.321 **INTERPRETATION OF AERIAL PHOTOGRAPHS (3)** Reading and interpretation of aerial photographs. The application of the aerial photograph in the fields of geography, geology, and photogrammetry.

2206.323 **CARTOGRAPHY AND GRAPHICS I (3)** Study in design, construction, and effective application of maps and charts for analysis and publication; practical exercises in the use of cartographic tools, materials, and techniques.

2206.324 **CARTOGRAPHY AND GRAPHICS II (3)** Continued exercises in map graphics and areal distribution maps. New techniques in presentation of graphic data and spatial relationships. Prerequisite: 2206.323.

2206.327 **MAP ANALYSIS AND INTERPRETATION (3)** Principal types of maps and their uses. Emphasis on understanding map components and the range of physical and cultural phenomena indicated on maps. Includes selected exercises which illustrate the analytical and graphical values of maps.

2206.341 **TECHNIQUES AND MATERIALS FOR GEOGRAPHY TEACHERS (3)** A systematic review of geographic concepts in relation to interdisciplinary studies in the physical and social sciences. Examination of the content of geography and problems of presentation.

REGIONAL COURSES

2206.419 **EASTERN ANGLO-AMERICA (3)** A description, an analysis, and an interpretation of the landscapes of Eastern United States and Southeastern Canada. A regional treatment of the natural and cultural settings

with attention given to international relations. Prerequisites: Six hours of Geography or consent of instructor.

2206.420 **WESTERN ANGLO-AMERICA (3)** A description, an analysis, and an interpretation of the landscapes of Western United States and Northern and Western Canada. A regional treatment of the natural and cultural settings with attention to international relations. Prerequisite: Six hours of Geography or consent of instructor.

2206.423 **GEOGRAPHY OF MARYLAND (3)** The effect of the physical background of Maryland on the economic and cultural development of the state. Outside influences, such as the transportation net of the Eastern United States, Megalopolis, and the nearby location of the national capital. Field trips. Prerequisite: 2206.101 and 2206.102 or consent of the instructor.

2206.431 **GEOGRAPHY OF AFRICA (3)** A systematic and regional approach to the study of people and environment of Africa, south of the Sahara. Focus is placed on the distribution of natural resources and the historical-political development of each county as important background for the understanding of current African affairs. Prerequisite: Six hours of Geography or consent of instructor.

2206.441 **GEOGRAPHY OF AUSTRALIA AND OCEANIA (3)** Regional approach in analyzing and interpreting the physical and cultural patterns, natural resources, current problems, and strategic importance of the Pacific world. Prerequisite: Six hours of Geography or consent of instructor.

2206.443 **GEOGRAPHY OF EAST ASIA (3)** Regional studies of the physical and cultural foundations in China, Japan, and Korea. Emphasis upon human and economic resources, and role in world affairs. Prerequisite: six hours of Geography or consent of instructor.

2206.445 **GEOGRAPHY OF SOUTH AND SOUTHEAST ASIA (3)** Regional studies of the physical and cultural foundations of India, Pakistan, Ceylon, Philippines, and Indonesia. Principal human and economic resources, problems of development, and role in world affairs. Prerequisite: Six hours of Geography or consent of instructor.

2206.447 **ECONOMIC AND POLITICAL GEOGRAPHY OF THE MIDDLE EAST (3)** A regional and systematic analysis of Southwest Asia and North Africa. Study of major natural and cultural resources and related patterns of spatial organization, economic and political development, and associated problems. Prerequisite: Six hours of Geography or consent of instructor.

2206.451 **GEOGRAPHY OF EUROPE (3)** Regional analysis and appraisal of the human geography and natural resources of Europe. Problems of nationality, economic development, and cultural conflicts. Prerequisite: Six hours of Geography or consent of instructor.

2206.453 **GEOGRAPHY OF THE USSR (3)** Physical and cultural patterns and their bearing on the Soviet Union as a world power. Regional distribution and use of natural and human resources in agriculture and industry. Problems in economic development and production. Prerequisite: Six hours of Geography or consent of instructor.

2206.461 **GEOGRAPHY OF SOUTH AMERICA (3)** Distribution and character of the economic activities in various South American countries in relation to physical and cultural features. Resources and problems of their development; importance of foreign trade to the economy; relationship with the United States. Prerequisite: Six hours of Geography or consent of instructor.

2206.463 **GEOGRAPHY OF CENTRAL AMERICA AND THE CARIBBEAN (3)** Distribution and character of the

economic activities in various Central American and Caribbean countries in relation to physical and cultural features. Resources and problems of their development; importance of foreign trade to the economy; relationship with the United States. Prerequisite: Six hours of Geography or consent of instructor.

SEMINARS AND SPECIAL COURSES

2206.470-479 SEMINAR: SELECTED TOPICS IN GEOGRAPHY (3) Reading and research in selected topics in the field of geography. Seminar topics will be announced. Prerequisite: Six hours of Geography or consent of instructor.

2206.483 SEMINAR: THE AMERICAS (3) Individual study in selected problems of the geography of the Americas. Prerequisite: Six hours of Geography or consent of instructor.

2206.485 SEMINAR: SOUTH ASIA (3) Reading, research, and discussions on special topics related to India, Pakistan, Ceylon, the Himalayan Kingdoms, and Afghanistan. Prerequisite: Six hours of Geography or consent of instructor.

2206.487 SEMINAR: GEOGRAPHY AND MAN IN THE 20TH CENTURY (3) Selected studies on the role of geographic factors in economic and political affairs and in the development of technology. Analysis of contributions of applied geography to the solution of urban and rural problems. Prerequisite: Six hours of Geography or consent of instructor.

2206.489 SEMINAR: STUDIES IN ENVIRONMENTAL QUALITY (3) Studies of selected problems in the quality of man's physical and cultural environments. Readings, discussions, and research on geographical and other aspects of man's use of natural resources and major forms of environmental pollution. Prerequisite: 2206.101, 2206.102 or consent of instructor.

2206.491 GEOGRAPHY/ENVIRONMENTAL PLANNING INTERNSHIP (1-6) Supervised placement and research in selected public and private agencies at appropriate institutions. May be repeated up to a maximum of six credits. Not open to those who completed 6 credits in 2206.479. Prerequisite: Consent of chairperson and 6 hours in Geography.

2206.493 FIELD GEOGRAPHY (2-6) Practical laboratory experience in techniques in the collection and analysis of data by observations, measurements, mapping, and photographic records. Such techniques are to be applied to selected geographic problems. Prerequisite: Six hours of Geography or consent of instructor.

2206.494 TRAVEL AND STUDY (3-6) Countries and topics to be selected by departments and instructors sponsoring the program. For complete information contact the chairperson of the department. Prerequisite: Consent of instructor.

2206.495 DIRECTED READING IN GEOGRAPHY (3) Independent reading in selected areas of geography. Open by invitation of the geography department to students taking a major or minor in geography. Prerequisite: 15 hours in geography and a minimum average of 3.0 in geography.

2206.496 INDEPENDENT STUDY IN GEOGRAPHY (1-6) Independent research, study, or field experience under supervision of a member of the Geography faculty. Designed for advanced students who wish to conduct independent investigations on aspects of Geography which

are of special interest or not covered in other courses. Registration arranged with department chairperson. Prerequisites: Advanced undergraduate standing with at least 18 hours in Geography or graduate standing.

2206.521 RESEARCH TECHNIQUES IN GEOGRAPHY (3) A course designed to study the investigative process in geographic research. Emphasis is on original research with a proper research proposal being the goal of the course. Prerequisite: Six hours of Geography or consent of the instructor.

2206.561 STUDIES IN ECONOMIC GEOGRAPHY (3) The study of selected geographical topics dealing with spatial distribution of economic activities. Topics will be announced. No more than six semester hours may be applied toward a degree. Prerequisite: Six hours of geography or consent of instructor.

2206.571 STUDIES IN PHYSICAL GEOGRAPHY (3) The study of selected geographical topics dealing with physical landscape phenomena, especially in regards to distribution, relationships, and significance to man. Topics will be announced. No more than six semester hours may be applied toward a degree. Prerequisite: Six hours of Geography or consent of instructor.

2206.581 SEMINAR IN POLITICAL GEOGRAPHY (2-6) Special subjects dealing with the geography of international politics, e.g. boundary problems, global strategy, space, sovereignty. Topics to be announced. No more than six semester hours may be applied toward a degree. Prerequisite: Six hours of Geography or consent of instructor.

2206.583 SEMINAR: ENVIRONMENTAL PROBLEMS IN MARYLAND (3) Individual research on a selected environmental problem in Maryland; oral and written presentations. Prerequisites: Graduate status and either geography major, previous work in Maryland, previous seminar or consent of instructor.

2206.591 URBAN GEOGRAPHY STUDIES (2-6) Selected topics dealing with the application of geography to planning, retail and industrial location, and trade analysis. Topics to be announced. No more than six semester hours may be applied toward a degree. Prerequisite: Six hours of Geography or consent of instructor.

2206.601 LAND USE STUDIES (2-6) Certain selected problems on urban, rural and rural-urban landscapes which consider and account for geographic differences in land utilization. Topics will be announced. No more than six semester hours may be applied toward a degree. Prerequisite: Six hours of Geography or consent of instructor.

2206.671 SEMINAR IN REGIONAL GEOGRAPHY (2-6) The description, analysis and interpretation of natural and cultural phenomena in certain significant geographic regions. Seminar topics will be announced. No more than six semester hours may be applied toward a degree. Prerequisite: Six hours of Geography or consent of instructor.

2206.697 RESEARCH (2-6) Directed investigation of a pertinent and appropriate geographical problem or problems based upon field and library study, which will contribute to geographical knowledge. Designed for individual research. Prerequisite: Six hours of Geography or consent of instructor.

2206.699 MASTERS THESIS IN GEOGRAPHY (3-6) Designed for graduate majors electing Plan A. Will be taken with thesis advisor. Prerequisite: Graduate status.

Health Science

Professor: BRUESS (Chairperson), OSMAN

Associate Professors: BLOUNT, ENSOR, GALLAGHER, WARREN

Assistant Professors: BONDER, BRUMMETT, GAY, OLSON, PARMENTER

Instructors: AGLEY, KENNEDY, J. McMAHON, M. J. McMAHON, MOLINARI

The health science courses are geared to bridge the gap between scientific health discoveries and the application of these to daily living, to develop people's potential to an optimal level, to aid in the selection of healthy behavior patterns for people and their environment, and to help people make the most of life. Students may select among programs in health (school or community), health record administration, medical technology, and occupational therapy. In addition a thematic option is available in health services management.

Departmental Office

Building — BU

Room — 143

Phone — 321-2378

Major in Health

The undergraduate major in health is specifically designed to allow the student to select one of three specializations — school health, community health, or school and community health. Depending upon the specialization selected, sufficient background will be acquired to deal with health in elementary and secondary schools or in community and public health agencies. The foundation for graduate education in school or public health is also provided for the health major student.

While there are positive points associated with the recent relatively rapid growth in the health major program at Towson, we are also feeling the effects of having more students to service. Since senior year placement opportunities in both school health situations and community health agencies are limited, any student beginning the health major program or completing the previously used pre-major requirements after May of 1976 will be screened according to the following procedures:

A. In order to be eligible for screening, the student must have completed: 1) a total of 45 semester hours of course work; 2) the following specific courses:

- | | |
|---|----------------------|
| a. Current Health Problems | 1201.101 |
| b. Health Education in the School I | 1201.201 |
| c. Principles & Practices of Community Health | 1201.202 |
| d. General Biology | 0401.101 |
| e. Human Anatomy & Physiology | 0401.113 |
| f. Chemistry | 1905.101 or 1905.100 |
| g. General Psychology | 2001.101 |
| h. Introduction to Sociology | 2208.101 |
| i. Freshman Composition | 1501.102 |

B. When a student meets the above two criteria, he/she is eligible to submit an application for screening via advisor to the Chairman of the Department of Health Science for the purpose of being screened into the Health major program. (Prior to acceptance into the program all students will be advised by Mr. Dan Agley.) The Application for Screening is a separate

form from those used for advising. This application should include the student's preference as to track within the major program and verification of G.P.A. *It is the student's responsibility to see that the application for screening is submitted before the cut-off dates as indicated below.*

- C. Grade point averages for the above nine courses will be computed and eligible students will be ranked according to these grade point averages.
- D. The cut-off dates for screening will be January 15 and July 1 of each calendar year. Twenty-five students will be accepted into the Health major program each semester (50 per twelve month period).
- E. Based upon current information each calendar year there will be twenty-eight available slots for school and community health students, five available slots for school health students, and seventeen available slots for community health students. Due to the limited number of spaces if a student desires to switch tracks, it is necessary to be re-screened with the next group of applicants.
- F. Students will be notified in writing by February 1 or August 1 of the respective year concerning their screening status. Students desiring to continue in the Health major program must notify the Department Chairperson in writing prior to the commencement of classes in a spring academic semester or by August 15 for a fall academic semester.
- G. Following the initial grade point ranking, a waiting list will be established. In the event that students in the upper fifty fail to indicate that they wish to continue in the program, their places will be taken by those on the waiting list in order of grade point average.
- H. All students screened out of the Health major program will be advised by the department about alternative major opportunities.
- I. When a Health major is screened into the program, this means that as long as satisfactory academic progress is maintained, the student can expect to be placed in student teaching and/or community health field work approximately two years after the date of the screening. A new advisor will be assigned based upon student choice and faculty availability.
- J. Regarding transfer students, the equivalent of the nine courses listed above will be accepted if taken at sending institutions with the exception of 1201.201 and 1201.202. Due to their specific nature and due to their place as part of a sequential program within the Health major program, these two courses must be completed at Towson State University. In all other respects, transfer students will be treated on the same basis as native students.

At the present time, once a student is screened into the program, as long as satisfactory academic progress is maintained placement in senior field experiences should pose no serious problems. It may be possible, however, that a delay is experienced if there should be more students than field placement spots at a given time. If this should happen, those students with the highest grade point averages will be placed first. Those who do not get placed,

but who were properly screened into the program, will then receive top priority during the next placement period.

THE HEALTH MAJOR

Requirements

Bachelor's Degree: Health (128 credits required) (School Health Specialization)

Chairperson: DR. CLINT E. BRUESS

In addition to the General University Requirements, the following courses are required of health majors with a school health specialization:

Health courses — total of 32 credits

Other required courses — total of 44 credits

Student Teaching — total of 14 credits

Grade point average required for graduation — 2.00, with C work or better in all required courses.

Health Courses

1201.101	Current Health Problems	(3) _____
1201.103	First Aid	(2) _____
1201.201	Health Education in the School I	(3) _____
1201.202	Principles and Practices in Community Health	(3) _____
1201.208	Mental Health	(3) _____
1201.301	Health Education in the School II	(3) _____
1201.401	Sex Education and Family Life	(3) _____
1201.402	Health Seminar	(3) _____
1201.405	Drugs in Our Culture	(3) _____
	Two Health elective courses	

Science Courses

0401.101	Contemporary General Biology	(4) _____
0401.113	Human Anatomy and Physiology	(4) _____
0401.114	Human Anatomy and Physiology	(4) _____
0401.315	Medical Microbiology	(4) _____
1905.100	Chemistry for Non-Scientists	(3) _____
	OR	
1905.101	General Chemistry	(4) _____

Other Required Courses

0803.398	Student Teaching	(14) _____
0803.401	Foundations of Education	(3) _____
0808.319	Survey of Education Programs	(3) _____
	OR	
0803.341	Principles of Secondary Education	(3) _____
0801.101	Careers in Education	(2) _____
0801.414	Elementary Tests and Measurements	(3) _____
2001.101	General Psychology	(3) _____
2001.201	Educational Psychology	(3) _____
2208.101	Introduction to Sociology	(3) _____
	Physical Education Electives (two semesters)	

Bachelor's Degree: Health (128 credits required) (Community Health Specialization)

Chairperson: DR. CLINT E. BRUESS

In addition to the General University Requirements, the following courses are required of health majors with a community health specialization:

Health courses — total of 38 credits

Other required courses — 37 credits

Community Health Field Work — total of 14 credits

Grade point average required for graduation — 2.00, with C work or better in all required courses.

Health Courses

1201.101	Current Health Problems	(3) _____
1201.103	First Aid	(2) _____

1201.201	Health Education in the School I	(3) _____
1201.202	Principles and Practices in Community Health	(3) _____
1201.207	Health Care in the United States	(3) _____
1201.208	Mental Health	(3) _____
1201.302	Preparation for Community Health Field Work	(3) _____
1201.303	Community Health Field Work	(14) _____
1201.311	Chronic and Communicable Diseases	(3) _____
1201.402	Health Seminar	(3) _____
1201.451	Ecological Aspects of Health	(3) _____
1208.213 or 2001.431	Group Dynamics	(3) _____
	Two Health elective courses	

Science Courses

4001.101	Contemporary General Biology	(4) _____
0401.113	Human Anatomy and Physiology	(4) _____
0401.114	Human Anatomy and Physiology	(4) _____
0401.315	Medical Microbiology	(4) _____
1905.100	Chemistry for Non-Scientists	(3) _____
	OR	
1905.101	General Chemistry	(4) _____

Other Required Courses

0506.101	Introduction to Business Management	(3) _____
2204.101	Economic Principles and Problems I	(3) _____
1701.237	Elementary Biostatistics	(4) _____
2001.101	General Psychology	(3) _____
2208.101	Introduction to Sociology	(3) _____
	Physical Education Electives (two semesters)	

It is strongly recommended that students electing the community health track also complete a minor in sociology, biology, psychology, or other appropriate related area.

Bachelor's Degree: Health (128 credits required) (School and Community Health Specialization)

Chairperson: DR. CLINT E. BRUESS

In addition to the General University Requirements, the following courses are required of health majors with a school and community health specialization:

Health courses — 32 credits

Other required courses — 42 credits

Student Teaching — 8 credits

Community Health Field Work — 8 credits

Grade point average required for graduation — 2.00, with C work or better in all required courses.

Health Courses

1201.101	Current Health Problems	(3) _____
1201.103	First Aid	(2) _____
1201.201	Health Education in the School I	(3) _____
1201.202	Principles and Practices in Community Health	(3) _____
1201.208	Mental Health	(3) _____
1201.301	Health Education in the School II	(3) _____
1201.302	Preparation for Community Health Field Work	(3) _____
1201.303	Community Health Field Work	(8) _____
1201.401	Sex Education and Family Life	(3) _____
1201.402	Health Seminar	(3) _____
1201.405	Drugs in Our Culture	(3) _____
	One health elective course	

Science Courses

0401.101	Contemporary General Biology	(4) _____
0401.113	Human Anatomy and Physiology	(4) _____
0401.114	Human Anatomy and Physiology	(4) _____
0401.315	Medical Microbiology	(4) _____
1905.100	Chemistry for Non-Scientists	(3) _____
	OR	
1905.101	General Chemistry	(4) _____

Other Required Courses

0803.398	Student Teaching	(8)_____
0803.401	Foundations of Education	(3)_____
0808.319	Survey of Education Programs	(3)_____
	OR	
0803.341	Principles of Secondary Education	(3)_____
0801.101	Careers in Education	(2)_____
1701.237	Elementary Biostatistics	(4)_____
2001.101	General Psychology	(3)_____
2001.201	Educational Psychology	(3)_____
2208.101	Introduction to Sociology	(3)_____
	Physical Education Electives (two semesters)	

Graduate Program in Health

A specialization in health education as part of a Master of Education program in Secondary Education as well as an M.S. Degree in Health Science are available. For further information consult the graduate studies catalog or Dr. Phyllis Ensor, graduate coordinator of the Health Science Department.

HEALTH COURSES (1201)

Lower Division — Undergraduate

- 1201.101 **CURRENT HEALTH PROBLEMS (3)** Health problems of current interest or importance on an individual, community, national, and international basis. Includes a general overview of the state of the nation's health.
- 1201.103 **FIRST AID (2)** Designed for people who may be called upon to give first aid care in the course of their daily activities. Course content of the American Red Cross Standard First Aid and Personal Safety Course is included. The Red Cross Standard First Aid Certificate is awarded.
- 1201.104 **PARENTAL AND CHILD HEALTH (3)** An introduction to parental and child health in its contemporary, social, cultural setting. Discussion will include parenthood, prenatal care, growth and development of the child, the school environment, physical handicaps, and public health programs serving the maternal, infant, and preschool populations. Prerequisite: 1201.101.
- 1201.107 **HEALTH PROFESSIONALS' ORIENTATION (3)** Overview of basic principles of health care delivery, consumers, professions, and relationships.
- 1201.201 **HEALTH EDUCATION IN THE SCHOOL I (3)** A general overview of the school health program, examination of various pertinent curriculum designs, and detailed instruction in structuring weekly and daily sequential planning. Prerequisite: 1201.101.
- 1201.202 **PRINCIPLES AND PRACTICES IN COMMUNITY HEALTH (3)** Principles and practices in the field of community health, and the organization and administration of various agencies. Major community health problems. Prerequisite: 1201.101.
- 1201.203 **FIRST AID INSTRUCTORS (2)** American Red Cross First Aid Course for instructors certification. Prerequisite: 1201.103.
- 1201.204 **NUTRITION (2-3)** A basic course covering the chemical nature and utilization of nutrients; the composition, digestion, absorption of foods; and the normal nutritional requirements of the human body, with attention to the relationship between nutrition and general health. Prerequisite: Chemistry 1905.101 or consent of instructor.
- 1201.206 **HEALTH AND URBAN LIVING (3)** Study of those conditions of urban living with particular relevance for the health and well-being of urban dwellers. Nature,

extent, and programs and problems in dealing with atmospheric pollution, water supply, housing, sanitation, behavioral disorders, mental illness, communicable disease, etc. Prerequisite: 1201.101, 2208.101.

- 1201.207 **HEALTH CARE IN THE UNITED STATES (3)** A survey-seminar course which analyzes the demand, cost, supply and providers of health care. The position and behavior of the health care recipient, analysis of different health care settings, and factors such as professionalism, the professional education system, authority structures, ethical responsibilities, referral, cost accountability and how they affect and define methods for delivery of health care services.
- 1201.208 **MENTAL HEALTH (3)** A study of the positive aspects of mental health and interpersonal relationships. Emphasis is placed on self-actualization, the helping relationship, constructive confrontation, and mental health roles in school and community. Prerequisite: 1201.101.
- 1201.209 **CONSUMER BEHAVIOR (3)** The course is designed to examine consumer behavior in light of psychological, sociological, and ecological principles. Taught on an interdepartmental basis with the Psychology Department. Prerequisite: 1201.101, 2001.101.
- 1201.211 **SCHOOL HEALTH FOR PHYSICAL EDUCATION MAJORS (3)** An overview of the total school health program and its relationship to community health, techniques of teacher appraisal, and services rendered to the school health program. Prerequisite: 1201.101.
- 1201.213 **SCHOOL HEALTH FOR EARLY CHILDHOOD AND ELEMENTARY MAJORS (3)** A general introductory overview of the total school health program, examination of various pertinent health curriculum designs, exposure to available methods of instruction in health education, practicum in designing weekly and daily lesson plans, and resources available to assist health instruction. Prerequisite: 1201.101.
- 1201.221 **HUMAN SEXUALITY (3)** An individually oriented discussion course designed to explore the multidisciplinary scope of human sexuality. An in-depth look at the physiological, psychological, emotional, cultural, and social aspects of human sexuality will focus on establishing one's sexuality as a healthy entity. Prerequisite: 1201.101.
- 1201.225 **WEIGHT CONTROL: THEORY AND PRACTICE (3)** Designed for students interested in either the theoretical and/or the practical aspects of losing, gaining, or maintaining weight. Recent medical and behavioral literature will be reviewed. Opportunities will exist in class to make application of the theories. Prerequisite: 1201.101 or permission of instructor.
- ### Upper Division — Undergraduate
- 1201.301 **HEALTH EDUCATION IN THE SCHOOL II (3)** An in-depth consideration of the total school health program with emphasis on interpretation of school health services, analysis of selected health education curriculum guides, development of teaching materials, and actual observation and participation in health education in elementary and secondary schools. Prerequisite: 1201.101, 1201.201, 1701.237.
- 1201.302 **PREPARATIONS FOR FIELD WORK IN COMMUNITY HEALTH (3)** Examination of techniques needed to work in various community health capacities; observation of community health situations. Prerequisites: 1201.202, 1701.237.
- 1201.303-304 **FIELD WORK IN COMMUNITY HEALTH (1-14)** Practical experience in participation in community health education situations. Total number of credits ac-

cumulated may not exceed 14 for both 303 and 304. Graded under S/U procedure. Prerequisite: 1201.302.

1201.305 COMMUNITY HEALTH ADMINISTRATION (3) A survey of current approaches to the theories, practices and organization of community health services administration. Prerequisites: 1201.202.

1201.311 CHRONIC AND COMMUNICABLE DISEASE (3) A factual, non-clinical approach to the major chronic and communicable diseases that are health problems in the United States population today. Patient education methods and the role of the health educator in relation to these diseases will be stressed. Prerequisites: 1201.101, 0401.101 (0401.315 strongly recommended).

1201.321 CRISIS INTERVENTION (3) Various crisis situations and approaches to intervention in handling these situations will be covered in the course. Examples of specific crisis concerns that will be dealt with are: Drugs, sex, death, suicide, handicaps, mental illness, diseases, and family and peer groups. Prerequisite: 1201.208 or consent of instructor.

Upper Division — Undergraduate and Graduate

1201.401 SEX EDUCATION AND FAMILY LIFE (3) Designed for the present and future teacher, the course includes an overview of human sexuality. Emphasis will be placed on the need for education about sexuality, theories of sexual education, selection of content, sequential unit planning, survey and availability of A-V materials and the qualifications of the effective sex educator. Prerequisites: 1201.221 or 1201.101, 2001.101, 0401.101.

1201.402 HEALTH SEMINAR (3) Examination of recent trends in school and community health, reports of student projects, consultation with experts in health field. Prerequisite: Consent of department chairperson.

1201.403 HEALTH EDUCATION CURRICULUM (3) Development of school health education programs based on health needs and problems of school children. Prerequisite: 1201.101, 1201.201.

1201.405 DRUGS IN OUR CULTURE (3) An in-depth review of harmless, harmful, useful and useless substances which may affect behavior or mood; the interaction of psychological, sociological and physiological components included. Prerequisite: 1201.101.

1201.411 HEALTH AND LATER MATURITY—THE AGING PROCESS (3) An approach to the conservation of human resources with emphasis on understanding attitudes and practices related to health in later maturity. Designed for students with a personal or professional interest in the field. Prerequisites: Six hours of health and/or behavioral science or consent of instructor.

1201.451 ECOLOGICAL ASPECTS OF HEALTH (3) An examination of the interrelationship between man and his environment. Emphasis is placed upon health aspects of pollution, housing, sanitation, radiation, behavioral disorders and epidemiology. Prerequisites: 1201.101, 2208.101.

1201.470-479 HEALTH WORKSHOP (3 or 6) For teachers, administrators, and individuals concerned about health related fields. Contemporary health aspects are considered with emphasis on implementation of positive behavior aimed at improving the health of the individual and the community. Students who elect this course for six credits will participate in two workshops. Enrollment is limited to 25. Prerequisite: 1201.101 or consent of instructor.

1201.491 HEALTH DIRECTED READINGS (1-3) Independent reading in health or related disciplines. Prerequisite: A minimum of 10 credits in health and consent of department chairperson.

1201.495 INDEPENDENT STUDY (3) Directed study on specific problems in health and related fields. Prerequisite: Consent of department chairperson and 12 hours in health.

Graduate Division

1201.501 PROBLEMS IN SCHOOL HEALTH (3) Designed to assist the student in developing an understanding of current problems in school health programs. The structure, organization, scope, content and practices in the field as revealed through literature and research is studied. Prerequisite: Consent of department chairperson.

1201.511 CURRENT LITERATURE IN HEALTH (3) Critical analysis of current and past research findings concerning health knowledge, attitudes, behavior, and educational techniques. A comprehensive review of health-related periodicals is included. Prerequisite: Undergraduate major in health, consent of instructor, or 15 semester hours of health.

1201.513 ANALYSIS OF PHYSIOLOGICAL CONCEPTS (3) Analysis of research and laboratory applications of the physiological factors that affect human efficiency before, during, and after exercise. Factors to be investigated include: metabolism, circulation, respiration, muscular physiology, endocrine system, ergogenic aids, environmental factors, etc. Prerequisite: Consent of department chairperson.

1201.515 COMMUNITY HEALTH: QUALITATIVE & QUANTITATIVE ELEMENTS (3) An exploration of vital and health statistics, population dynamics and family planning, epidemiology, public health law and legislative action, health behavior and its determinants, community organization and program staff development as they relate to community health education both qualitatively and quantitatively. Prerequisite: Consent of department chairperson.

1201.525 RESEARCH METHODS IN HEALTH (3) An introduction to research and statistical designs as directly related to Health Science and Allied Health disciplines. Evaluation and redesign of current health research designs will be emphasized. Prerequisites: 1701.231 or 0801.414 and graduate standing or consent of instructor.

1201.531 PRINCIPLES OF COMMUNITY HEALTH EDUCATION (3) An introduction to the principles of community health education and exploration of theories and divergent styles of health education practice within community settings. Prerequisite: Admission into the Graduate Program.

1201.533 HEALTH CARE SYSTEMS (3) A study of historical development of the American health care systems and recent trends in organization, administration, and legislation. Some laboratory sessions may be scheduled with the course. Prerequisite: Graduate standing.

1201.535 ADVANCED STUDY OF THEORIES OF EDUCATIONAL STRATEGIES FOR HEALTH (3) A seminar of practical professional techniques: students will be required to prepare samples of educational materials, programs, and strategies. Prerequisites: 1201.531 or 1201.501.

1201.541 PATIENT EDUCATION: INTRODUCTION AND APPLICATION (3) In-depth study of chronic and communicable diseases with special emphasis on preventative health behavior and programs of patient education. Prerequisites: 0401.113-114, graduate standing.

1201.570-579 SPECIAL TOPICS (3) The course is designed to focus on several currently important health topics. Possible suggestions include: fitness in a hypokinetic world, aging, death, alcohol and its abuse, consumerism, disease, weight control, value clarification,

developing a personal philosophy of health. Prerequisite: 6 hours in health or permission of department chairperson.

1201.591 (41.591) DIRECTED READINGS IN HEALTH (3) Individual study of a significant problem in health through consultation with appropriate faculty members. Emphasis is on increased knowledge of health. Prerequisite: Undergraduate major in health, consent of instructor, or 15 semester hours of health.

1201.685 GRADUATE SEMINAR IN HEALTH (3) Prerequisites: 1201.501, 1201.525, 1201.531.

1201.695 THESIS PROJECT (3) Prerequisite: 1201.525 and 1201.685.

1201.699 MASTER'S THESIS IN HEALTH (3) Prerequisite: 1201.525, 1201.501, or 1201.531, 1201.685.

MAJOR IN HEALTH RECORD ADMINISTRATION

Director: DR. NEIL E. GALLAGHER

Total required credits for graduation — 120 credits

Grade Point Average required for graduation — 2.00, with C work or better in all required courses.

With the improved and expanded state of the health care delivery system, the need for qualified Health Record Administrators has increased. Today the Health Record Administrator must be able to effectively organize and supervise the gathering, storage and retrieval of medical records. The four year baccalaureate degree program at Towson State University is designed to provide students the opportunity to acquire these skills. More specifically, this program attempts to impart a background in the humanities, biological sciences, physical sciences, statistics and research methods.

The Health Record Administration program meets all of the requirements of the American Medical Record Association. This program also provides sufficient educational experience to prepare students to "sit for" the (AMRA's) registry examination.

Faculty: United States Public Health Service Hospital

Ms. Johnnell Branch, RRA — Director, Health Record Administration

Ms. Linda Loring, RRA — Deputy Director, Health Record Administration

Mr. Robert L. Brunn — Associate Director for Administration

Mr. Carl A. Roth — Assistant Chief/Operation Research

Mr. Elliott A. Shefnin — Assistant Chief/Computer Systems

The Towson State University's Health Record Administration program is designed to fulfill general college requirements and provide students with an opportunity for course work in: medical terminology, medical records science, statistics, data processing administration, and anatomy and physiology. Students are required to complete 120 credit hours of which 78 credit hours are required and 42 are elective courses. The baccalaureate degree in Health Record Administration will be granted after successful completion of these requirements which includes a senior year internship at the U.S. Public Health Hospital. Transfer students must complete a minimum of 30 credit hours at Towson State before the internship. During the fourth semester native Towson State students and students from other institutions must take the A.H.P.A.T. in order to be eligible for screening. Due to a limited number of internship positions, students will be screened into this program at the end of the sophomore year.

Before beginning the internship at the U.S. Public Health Service Hospital a student must have at least a 2.0 cumulative average in all Health, Business, and Computer Science courses. They must also be officially accepted by the screening committee of the hospital. The internship is an eleven (11) month program in which 34 credit hours of the 120 will be completed at the hospital.

In addition to the General University Requirements the following courses are required for a major in Health Record Administration:

Business Administration courses — total of 9 credits

Science courses — total of 16 credits

Math courses — total of 13 credits

Other required courses — total of 9 credits

Internship — total of 34 credits

Curriculum Requirements

1501.102	English	(3) _____
1701.111 or	Mathematics	(3) _____
1701.115 or		
1701.119		
0401.101	Biology	(4) _____
1201.101	Current Health Problems	(3) _____
0506.101	Introduction to Business Management	(3) _____
1701.237	Elementary Biostatistics	(4) _____
0701.211	Introduction to Data Processing	(3) _____
0701.235	Fund of Computing	(3) _____
0401.113	Anatomy & Physiology	(4) _____
0506.381	Personnel Management	(3) _____
2208.391	Research Methods	(3) _____
0401.114	Anatomy & Physiology	(4) _____
0506.461	Administrative Analysis	(3) _____
	Natural Science Elective (Lab course)	(4) _____

Internship — Senior Year

1298.401	Medical Terminology	(3) _____
1298.403	Medical Record Science I	(5) _____
1298.405	Clinical Medicine and Surgery I	(3) _____
1298.407	Organization of Health Care Facilities and the Community	(2) _____
1298.409	Seminar in Health Records	(1) _____
1298.411	Directed Experience	(4) _____
1298.402	Legal Concepts for the Health Field	(2) _____
1298.404	Medical Record Science II	(5) _____
1298.406	Clinical Medicine and Surgery	(3) _____
1298.408	Classification and Information Systems	(1) _____
1298.410	Seminar in Health Records	(1) _____
1298.412	Directed Practice	(4) _____
1298.491	Directed Readings	(1-3) _____
1298.495	Independent Study	(1-3) _____

SCREENING

The Health Record Administration Program, although in its infancy, is already experiencing a shortage of available senior internships. This limiting factor has not voided student interest in the program, hence we have many more majors than we can service. Since there are no other institutions that offer the availability of a senior year internship, we propose that the following screening procedure be implemented:

- Students interested in pursuing a baccalaureate degree in Health Record Administration must complete the following:
 - Take the Allied Health Professional Admission Test (including the Medical Record section) on March of their fourth semester.
 - Must have completed the sixty (60) semester hours by the end of the fourth semester.

- c. Included in these sixty (60) hours must be two (2) courses in English Comp. (i.e., English Composition and Business Writing), Mathematics 115, Introduction to Data Processing, Introduction to Business Management and a basic biology course.
2. After a student has met the eligibility requirements, she/he must apply for screening by May 1st of the academic year in which the sixty (60) semester hours are completed.
3. Transfer students from a community college which offers an accredited Medical Records Technology program and who meet the eligibility requirements must apply for screening no later than May 1st of their last semester at the community college.
4. A cumulative G.P.A. for all courses taken as well as a group G.P.A. for the specific courses mentioned above will be calculated. Each area of evaluation; overall G.P.A., specific G.P.A., and A.H.P.A.T. scores; will be equally weighted. Based on the results, students will be assigned a composite ranking. The eight (8) students with the highest composite rankings will be tentatively accepted in the Health Record Program at Towson State University. REMEMBER THIS ACCEPTANCE IS ONLY TENTATIVE. FINAL ACCEPTANCE DEPENDS ON HOSPITAL SCREENING.

Students accepted into the Program must notify the program's director by August 1, of their intentions to pursue this baccalaureate program. Failure to do so will mean elimination from the list.

Students who are unsuccessful in this screening will be placed on a list for interested students in case an opening should occur. These students will also be advised to change their major. Suggested areas of study are Business Administration, Computer Science or General Studies (especially the Health Services Management option).

Important Dates

March 1st: A.H.P.A.T. plus Screening application

August 1st: Notification of continued interest

December 1st: Hospital Application

*Please have results sent to:

Director of Health Record Administration
Towson State University
Baltimore, Maryland 21204

Student Information Concerning Internship

1. Students selected for admission to the USPHS Hospital Health Record Administration Program will be responsible for obtaining living quarters. The Hospital Personnel Office will give assistance in locating suitable housing.
2. Purchase of books and supplies is the responsibility of the student.
3. Student grades are based upon written and laboratory examinations, the supervisor's evaluation of students' performance and professional attitudes, and a comprehensive examination covering both theoretical and practical work. Grading Scale: A = 90 to 100%; B = 80 to 90%; C = 70 to 80%; D = 60 to 70%. Since all courses taken at the Hospital are considered as courses in the student's major, a minimum grade of C (70%) in each course is required to successfully com-

plete the program and graduate from Towson State University.

4. Hospital Application Procedures

- a. Two Standard Form 171's, Personal Qualifications Statement and two inserts will be furnished the students to be returned in duplicate to the Hospital _____ no later than December 31 prior to the year in which the student plans to enter the Hospital Health Record Administration Program.
- b. Student will request the Registrar's Office to send an official transcript to the Hospital at the completion of the fifth semester and at the completion of the sixth semester.

Suggested Health Record Curriculum

FRESHMAN YEAR

First Semester

0401.101	Biology	4
1501.102	English	3
2001.101	Psychology	3
2208.101	Sociology	3
	Group I Elective (Art)	3
		16

Second Semester

1506.131	Speech	3
1701.111 or	Mathematics	3
1701.115 or		
1701.119		
	Group III Elective	3
	Group IV Elective	1
1201.101	Current Health Problems	3
0506.101	Introduction to Business Management	3
		16

SOPHOMORE YEAR

First Semester

	Group III Elective	3
1701.237	Elementary Biostatistics	4
	English Elective	3
0701.211	Introduction to Data Processing	3
	Electives	3
		16

Second Semester

	Modern Language Elective	3
0701.235	Fund of Computing	3
	Group I Elective	3
	Elective (Natural Science Laboratory Course)	4
		13

JUNIOR YEAR

First Semester

0401.113	Anatomy & Physiology	4
0506.381	Personnel Management	3
2208.391	Research Methods	3
	Group II Electives	3
		13

Second Semester

0401.114	Anatomy & Physiology	4
0506.461	Administrative Analysis	3
	Electives	6
		13

SENIOR YEAR

1298.401 MEDICAL TERMINOLOGY (3) A study of the language of medicine, including word construction, definitions, and use of terms related to all areas of medical science, hospital service, and the allied health specialties. Prerequisite: 0401.113-114 and consent of chairperson.

1298.402 LEGAL CONCEPTS FOR THE HEALTH FIELD (2) A study of the principles of law as applied to the health field, with particular reference to all phases of medical record practice. Prerequisite: 1298.403 and consent of chairperson.

1298.403 MEDICAL RECORD SCIENCE I (5) An introduction to the field of medical record science, including an orientation to medical care institutions, the history of medical records, professional ethics, and the functions of a medical records department. Prerequisites: 1201.101, 2208.391, 1701.231 and consent of chairperson.

1298.404 MEDICAL RECORD SCIENCE II (5) An in-depth study of the medical record, its components, development and use; coding and indexing of medical information; preservation of records; and research techniques. This course will survey health record systems for other departments of the hospital and for other health care facilities. Lectures are supplemented with laboratory experience. Prerequisite: 1298.403 and consent of chairperson.

1298.405 CLINICAL MEDICINE AND SURGERY I (3) An introduction to medical science, including the study of the nature and causes of disease, and the treatment of patients. Prerequisite: 0401.113-114 and consent of chairperson.

1298.406 CLINICAL MEDICINE AND SURGERY II (3) An in-depth analysis of the nature and causes of diseases and various treatment modalities. Prerequisite: 1298.405 and consent of chairperson.

1298.407 ORGANIZATION OF HEALTH CARE FACILITIES AND THE COMMUNITY (2) A study of the functions of modern health care facilities, the types of health care facilities, the various types of ownership and control, the standards and the relationships to the community. Prerequisites: 1201.101, 0506.101 and consent of chairperson.

1298.408 CLASSIFICATION AND INFORMATION SYSTEMS (1) Comparison and discussion of classification systems, indices and registers with emphasis on planning, implementation, and evaluation of systems, and the relationship of these systems to medical care evaluation by the medical staff and research activities. Prerequisites: 0701.211, 0701.235 and consent of chairperson.

1298.409 SEMINAR IN HEALTH RECORDS I (1) The presentation and discussion of selected case problems in health record administration, with emphasis on applying principles of organization and administration. Prerequisites: 0506.101, 0506.381 and consent of chairperson.

1298.410 SEMINAR IN HEALTH RECORDS II (1) The presentation and discussion of selected case problems in health record administration, with emphasis on applying principles of organization and administration. Prerequisites: 1298.409 and consent of chairperson.

1298.411 PRACTICUM IN HEALTH RECORDS ADMINISTRATION I (4) Supervised experience in medical record departments of hospitals in the area through which the student develops insight, understanding and skill in medical record procedures. Prerequisites: 1501.102, 0506.461, 2208.391 and consent of chairperson.

1298.412 PRACTICUM IN HEALTH RECORDS ADMINISTRATION II (4) A continuation of 1298.411. During this advanced phase the student will have one intensive experience on a full-time basis of not less than three weeks. Prerequisite: 1298.411 and consent of chairperson.

1298.491 HEALTH RECORD ADMINISTRATION DIRECTED READING (1-3) Independent readings and research of health record administration programs. Prerequisite: Consent of instructor.

1298.495 INDEPENDENT STUDY IN HEALTH RECORD ADMINISTRATION (1-3) Directed study on specific topics or field experience on specific topics of health record administration programs. Prerequisite: Consent of instructor.

MAJOR IN GENERAL STUDIES (Health Services Management Theme)

Director: DR. NEIL E. GALLAGHER

See General Studies Program

MAJOR IN MEDICAL TECHNOLOGY

Director: DR. NEIL E. GALLAGHER

The four year program is designed to prepare allied health personnel for specialized work in hospital and medical laboratories while they earn a Bachelor of Science Degree in Medical Technology. It provides sufficient background for the student to pass the Registry Examination which is administered by the Board of Registry of the American Society of Clinical Pathologists. During the first three years, there is special emphasis on chemistry and biology. The fourth year consists of specialized classes and practical training in clinical laboratories of an affiliated hospital (St. Joseph or Union Memorial) or other hospitals approved by Towson State University. A student may receive his/her Bachelor of Science Degree in Medical Technology from Towson State University before (s)he passes the Registry Examination. As of December 1973, students are not admitted to the Registry Examination without a baccalaureate degree.

The Medical Technology program at Towson State University meets all requirements of the Board of Registry of the American Society of Clinical Pathologists, and it is approved by the Council on Medical Education and Hospitals of the American Medical Association.

Faculty

Section 01 (Union Memorial Hospital)

Director: DEZSO K. MERENYI, M.D.

Educational Coordinator: ROBERT E. DURELL, M.T. (ASCP)

Pathologist: CARLOS ORBEGOS, M.D.

Pathologist: RICHARD R. GRAHAM, M.D.

Pathologist: DAVID A. DOBROW, M.D.

Pathologist: DANIEL SYMONDS, M.D.

Assistant Educational Coordinator: LYNNE YAKEL, M.T. (ASCP)

Section 02 (St. Joseph Hospital)

Director: LAWRENCE F. MISANIK, M.D.

Educational Coordinator: MICHAEL A. MAFFETONE, M.S., M.T. (ASCP)

Clinical Chemist: JAMES BOWLING, Ph.D.

Pathologist: REYNALDO ORJUELA-GOMEZ, M.D.

Pathologist: MAURICE B. FURLONG, M.D.

Pathologist: SAMUEL C. H. LEE, M.D.

Pathologist: HENRY CRIST, M.D.

Administrative Coordinator: DENNIS GIFFORD, M.A., M.T. (ASCP)

Biology courses — total of 19 credits

Chemistry courses — total of 21 credits

Other required courses — total of 14 credits

Hospital internship — total of 32 credits

Curriculum Requirements

0401.101	Contemporary General Biology	(4) _____
0401.113	Human Anatomy & Physiology I	(4) _____
0401.114	Human Anatomy & Physiology II	(4) _____
0401.315	Medical Microbiology	(4) _____
	Elect four additional hours of Biology	(4) _____
1905.101	General Chemistry I	(4) _____
1905.102	General Chemistry II	(4) _____
1905.210	Principles & Mechanisms of	
	Chemical Analysis	(4) _____
1905.330	Essentials of Organic Chemistry	(5) _____
	Elect four additional hours of Chemistry	(4) _____
1201.101	Current Health Problems	(3) _____
1701.115	Mathematics I	(3) _____
1902.211	General Physics I	(4) _____
1701.237	Elementary Biostatistics	(4) _____

Strongly Recommended courses

0401.401	Genetics	(4) _____
0401.421	Immunology	(3) _____
1905.350	Principles of Biochemistry	(5) _____

Recommended courses

1201.204	Nutrition	(3) _____
0401.221	Introduction to Animal Parasitology	(4) _____
1201.311	Chronic and Communicable Disease	(3) _____

Students will be screened by the Medical Technology Screening Committee during their sophomore year. Those interested should apply to Program Director. Those accepted by the committee will complete the following courses during their senior year.

1223.401-402	Immunohematology and Blood Bank	(1.5, 1.5) _____
1223.403-404	Clinical Biochemistry	(4, 4) _____
1223.405-406	Hematology	(4, 4) _____
1223.407-408	Clinical Pathology	(1, 1) _____
1223.409-410	Microbiology	(2.5, 2.5) _____
1223.411-412	Human Parasitology	(1, 1) _____
1223.413-414	Immunodiagnostic	(1, 1) _____
1223.415-416	Urinalysis	(1, 1) _____

Though the Bachelor of Arts degree is normally earned when a student adds a foreign language to the degree requirements, the Medical Technology Director recommends that all majors indicate that they want a Bachelor of Science degree when they apply for graduation.

Medical Technology Screening Procedures

Students' interest and enthusiasm in the Medical Technology Program has exceeded the available clinical experience placements. This shortage has necessitated the implementation of the following screening procedures:

In order to be considered for tentative acceptance a student must have completed eight semester hours of Biology, eight semester hours of Chemistry, and a total of 45 semester hours. By the end of their third semester students must have declared their interest in majoring in Medical Technology. This necessitates students applying for consideration to the Director of Medical Technology Program no later than January 15.

The Director of the Medical Technology Program will review each application according to the following criteria:

- Total academic record-overall grade point averages for students screened will be placed in a rank order. Grades in science courses will also be considered separately.
- General progress towards a baccalaureate degree

(this includes general education courses and other courses specifically related to Medical Technology). After three semesters of full-time work or the equivalent, a student should have completed 50% of the general education requirements. After four semesters of full-time work or the equivalent a student should have completed 70% of the general education requirements. Extenuating circumstances affecting general progress towards a degree will be considered. These might include personal health problems, a need to work many hours while attempting college, or other personal situations.

- A personal interview will be used by the Director where appropriate. It is felt that the above criteria will be sufficient to break the students into three general classifications. One classification would be those who clearly fail to meet the criteria; a second classification would be those who meet the criteria very well; a third classification would be those whose status is questionable based upon the criteria. The students in the third group are those who will be interviewed if necessary to fill the quota.

Presently, the availability of senior year clinical experience is limited. Judging by the present hospital facilities, 14 students could be tentatively accepted following this screening. This acceptance is tentative since appropriate academic progress is required and final acceptance to the senior year clinical experience is dependent on approval by the respective hospital screening committee. All students will be ranked according to their G.P.A. Those students falling below the 14 student cut-off point will be placed on a waiting list. Should any of the 14 accepted students fail to indicate their intention of continuing in Medical Technology by March 1, their position will be taken by students on the waiting list.

To allow for a margin of error and also to attempt to pick up students who may have missed the previous screening date for various reasons, applications will again be accepted until July 1 of the calendar year. In order to be considered at that time, a student should have completed 20 hours of science and 60 total semester hours. The other criteria used would be the same as listed above. Following the July 1 screening, six additional students would be admitted to the program. This would result in a total of 20 students in Medical Technology during their Junior year. Students accepted at this time must indicate their intention to continue in Medical Technology by August 1. A waiting list will again be established on a rank order basis after the July 1 screening. Each calendar year will result in the establishment of a new waiting list. In this way it is possible for a student to apply for acceptance to the Medical Technology Program as many times as desired.

Towson State students and transfer students will be considered on an equal basis for screening purposes.

Students are reminded that a second screening procedure is implemented prior to acceptance into the hospital internship (see student handbook for details.)

Important dates for student screening:

- During third semester of study file screening application with Director by January 15.

- b. Tentatively accepted students indicate intention to continue by March 1.
- c. Application for second screening due at Director's office by July 1.
- d. Application for internship by accepted candidates submitted by January 1 of the year prior to the internship.

Ninety credit hours are to be completed during the first three years at Towson State University or other accredited colleges. Thirty of these credit hours must be completed at Towson State University. During the fourth year, thirty-two credit hours are to be completed at Union Memorial Hospital, St. Joseph's Hospital, or other appropriate hospitals determined by Towson State University. Before beginning the fourth year at the affiliated hospital, students must attain at least a 2.0 cumulative average, a minimum grade of C in all Biology and Chemistry courses, and be accepted by the respective hospital screening committee.

During the fourth year, the twelve month course of study in the hospital includes:

MEDICAL TECHNOLOGY COURSES (1223)

Upper Division — Undergraduate Only

Courses for Medical Technology Internship

- 1223.401-402 IMMUNOHEMATOLOGY AND BLOOD BANK (1.5, 1.5) Red Blood antigen-antibody reactions involved in the cause of disease, the pathogenesis, or diagnostic test for the disease. Current practices and trends of blood transfusion, from donor selection to blood component therapy are covered. The laboratory deals with all routine testing in a community hospital.
- 1223.403-404 CLINICAL BIOCHEMISTRY (4, 4) Lecture categories include analytical chemistry and physiological biochemistry. Normal and abnormal physiology, test interpretation, quality control and test development are included. Test procedure and theory are studied in the laboratory.
- 1223.405-406 HEMATOLOGY (4, 4) In depth study of diseases of the blood cells and the coagulation process and the tests used to diagnose them.
- 1223.407-408 CLINICAL PATHOLOGY (1, 1) Discussion of theoretical and practical aspects of analysis of special body fluids with emphasis on clinical pathological correlations.
- 1223.409-410 MICROBIOLOGY (2.5, 2.5) A study of diseases of bacterial and fungal origin with special emphasis on mechanisms of pathogenicity and clinical techniques.
- 1223.411-412 HUMAN PARASITOLOGY (1, 1) The scientific study of disease-causing parasites of man. The laboratory emphasizes isolation and identification techniques.
- 1223.413-414 IMMUNODIAGNOSTICS (formerly Serology) (1, 1) The biology of the immune response and immunopathology as well as serological reactions are included. Immunodiagnosics are studied in the laboratory.
- 1223.415-416 URINALYSIS (1, 1) Renal anatomy and physiology relating to the formation of urine in health and disease. The chemical and microscopic study of urine is dealt with in the laboratory sessions.
- 1223.491 MEDICAL TECHNOLOGY DIRECTED READINGS (1-3) Independent readings in Medical Technology or related disciplines. Prerequisite: Must be enrolled in hospital Internship program.

MAJOR IN OCCUPATIONAL THERAPY

Director: MRS. MARIE-LOUISE F. BLOUNT

Extramural Faculty

- | | |
|--|---|
| Mrs. Nancy Adams, OTR
Occupational Therapy
Department
St. Elizabeth's Hospital
Washington, DC | Mrs. Shirley Edelman, OTR
Occupational Therapy
Department
Westwood Lodge and
Hospital
Westwood, MA |
| Ms. Skip Allen, OTR
Director
Occupational Therapy
Services
Toledo, OH | Mrs. Barbara Edwards, OTR
Rolling Road School
Baltimore, MD |
| Miss Marianne Barkley, OTR
Occupational Therapy
Department
Moss Rehabilitation Center
Philadelphia, PA | Ms. Charlotte Exner, OTR
Occupational Therapy
Department
John F. Kennedy Institute
Baltimore, MD |
| Mrs. Martha Bromberger,
OTR
Occupational Therapy
Department
St. Joseph's Hospital
Baltimore, MD | Miss Linda Florey, OTR
Occupational Therapy
Neuropsychiatric Institute
U.C.L.A.
Los Angeles, CA |
| Ms. Gail Bullock, OTR
Occupational Therapy
Department
Medicenter
Virginia Beach, VA | Miss Meredith Garitee, OTR
Ridge School
Towson, MD |
| Mrs. Jay Bullock, OTR
Rehabilitation Medicine,
Osler Clinic
The Johns Hopkins Hospital
Baltimore, MD | Mrs. Rose Garrett, OTR
Occupational Therapy
Department
Dallas Home for the Jewish
Aged
Dallas, TX |
| Mrs. Mary Burnett, OTR
Occupational Therapy,
Phipps Clinic
The Johns Hopkins Hospital
Baltimore, MD | Mrs. Patricia Hillis, OTR
Occupational Therapy
Department
Veterans Administration
Hospital
Miami, FL |
| Miss Lillian Chong, OTR
William S. Baer School #301
Baltimore, MD | Mrs. Pat Holtman, OTR
Occupational Therapy
Department
Rosewood Hospital Center
Owings Mills, MD |
| Mr. David Clark, OTR
Occupational Therapy
Department
Grady Memorial Hospital
Atlanta, GA | Miss Margaret Howison, OTR
Occupational Therapy
Department
Elizabethtown Hospital for
Children and Youth
Elizabethtown, PA |
| Mrs. Delores Cook, COTA
Randallstown Convalescent
Center
Randallstown, MD | Miss Jo Hubbs, OTR
Day Care Program
Sheppard-Enoch Pratt
Hospital
Baltimore, MD |
| Mrs. Emily Crockett, OTR
Director, Programs and
Activities
Stella Maris Hospice
Baltimore, MD | Miss Barbara Kollodge, OTR
Occupational Therapy
Department
Veterans Administration
Hospital
Bronx, NY |
| Lt. Cmdr. Helen Delaney, OTR
Occupational Therapy
Department
National Naval Medical
Center
Bethesda, MD | Mrs. Anne Kuntavanish, OTR
Occupational Therapy
Department
Greater Southeast Community
Hospital
Washington, DC |
| Mrs. Jean Earp, OTR
Occupational Therapy
Department
U.S. Public Health Service
Hospital
Baltimore, MD | Miss Penny Kyler, OTR
Occupational Therapy
Department |

Extramural Faculty (Cont'd.)

Mt. Wilson Hospital Center
Mount Wilson, MD

Miss Mary Jo Laughlin, OTR
Occupational Therapy
Department
Wernersville State Hospital
Wernersville, PA

Ms. Cheryl Leman, OTR
Occupational Therapy
Department
Washington Hospital Center
Washington, DC

Miss Donna Lucke, OTR
Occupational Therapy
Department
Sheppard-Enoch Pratt
Hospital
Baltimore, MD

Mrs. Jo Martin, OTR
Occupational Therapy
Department
Harmarville Rehabilitation
Center
Pittsburgh, PA

Mrs. Virginia Moratz, OTR
Occupational Therapy
Department
Physical Medicine
University of Maryland
Hospital
Baltimore, MD

Mrs. Bonnie Moy, OTR
Occupational Therapy
Section
Rehabilitation Medicine
Veterans Administration
Hospital
Fort Howard, MD

Mrs. Mary Padgett, OTR
Occupational Therapy
Rehabilitation Medicine
Sinai Hospital
Baltimore, MD

Miss Penny Pentz, COTA
Acute Psychiatric Unit,
B-4 North
Baltimore City Hospital
Baltimore, MD

Miss Patricia Potter, OTR
Consultant, UCP
Timonium, MD

Miss Charlotte Prudich, OTR
Occupational Therapy
Department
West Virginia Rehabilitation
Center
Institute, WV

Ms. Gerry Pullium, OTR
Occupational Therapy
Department
Dallas Co. Hospital District
Dallas, TX

Mrs. Joan Reed, OTR
Therapeutic Activities
Department
New Hampshire Hospital
Concord, NH

Mrs. Randy Reichler, OTR
Occupational Therapy
Department
Montgomery General
Hospital
Olney, MD

Miss Helga Robinette, OTR
Occupational Therapy
Department
Jackson Memorial Hospital
Miami, FL

Miss Peggy Roche, OTR
Occupational Therapy
Department
Maryland School for
the Blind
Baltimore, MD

Miss Ellen Schmidt, OTR
Occupational Therapy
Department
Maryland General Hospital
Baltimore, MD

Mrs. Theresa Scholz, OTR
Rehabilitation Therapy
Department
Springfield Hospital Center
Sykesville, MD

Mrs. Dana Serkin, OTR
Occupational Therapy
Department
James L. Kerner Hospital
Baltimore, MD

Mrs. Jessica Siegars, OTR
Occupational Therapy
Department
Montebello Hospital Center
Baltimore, MD

Mrs. Frances Silverstein, OTR
Occupational Therapy
Department
Good Samaritan Hospital
Baltimore, MD

Mrs. Cynthia Smith, OTR
Occupational Therapy
Department
National Institutes of Health
Bethesda, MD

Miss Yvonne Smith, OTR
Delrey Development Center
Catonsville, MD

Miss E. Anne Spencer, OTR
Occupational Therapy
Department
Eastern Maine Medical
Center
Bangor, ME

Miss Meg Sweeney, OTR
Battle Monument School
Baltimore, MD

Ms. Ruth Wiemer, OTR
Maryland State Department
of Health
Baltimore, MD

Ms. Donna Winner, OTR
Occupational Therapy
Department
Maryland Rehabilitation
Center
Baltimore, MD

Occupational therapy is the art and science of directing human participation in selected tasks to restore, reinforce and enhance performance, facilitate learning of those skills and functions essential for adaptation and productivity, diminish or correct pathology, and promote and maintain health. Occupational therapists direct the use of self-care, work, homemaking, play and leisure activities. They use these activities to assist individuals or groups whose health is threatened or impaired by developmental deficits, aging, poverty and environment conditions, physical injury or illness, and psychological and social disability.

Occupational Therapy Major Policies and Procedures

The four year program is designed to provide a liberal education and develop professional competence. It leads to the Bachelor of Science in Occupational Therapy and is planned to prepare graduates to pass the certification exam to become a registered occupational therapist.

1. Students interested in becoming occupational therapy majors are required to first gain admission to Towson State University. Admission to the University does not guarantee admission to the occupational therapy major. Occupational therapy faculty will advise potential students about the nature of the profession, the national certification examination and the occupational therapy curriculum prior to admission at the request of the student. This prior contact is highly recommended since admission to the major is competitive and the number of occupational therapy candidates is limited.
2. After admission to the University, the student is required to arrange an orientation meeting with the Occupational Therapy Office if he/she has not done so previously.
3. If the student has not observed the practice of occupational therapy, he/she may be required to visit one or more occupational therapy service programs before placing his/her name on the Pre-Occupational Therapy Major Candidates List. The student will be informed of the number of visits required at the orientation meeting.
4. The student must declare his/her interest by placing his/her name on the Pre-Occupational Therapy Major Candidates List. The above requirements (1, 2, 3) must be completed before this step.
5. Candidates for the Freshman class and other Towson State University students, and transfer students from other colleges and universities will be placed on the Pre-Occupational Therapy Major Candidates List on a first come basis for the following fall. Thirty places will be available for candidates for the Freshman class and students enrolled at Towson State University. Twelve places will be available for transfer students. A waiting list will also be kept to assure a first year Occupational Therapy class of forty-two students. Transfer students should anticipate that it will take at least 3½ years to complete the Occupational Therapy Program.
6. If a student chooses to withdraw from the Pre-Occupational Therapy Major Candidates List, he/she should notify the Occupational Therapy Program Director in writing.
7. Thirty students shall be accepted into the Occupational Therapy Program at the end of each freshman year, after a screening process. A waiting list of qualified students will be kept until the "last day of add classes" for the fall semester as stated in the Towson State University Bulletin.

8. The screening process at the end of the freshman year requires the use of grade point average for prerequisite courses, a personal interview, a written statement of interest and two personal references.
9. Prerequisites to be completed during freshman year before screening must include: Biology 0401.101, Psychology 2001.101, Sociology 2208.101, English 1501.102, Mental Hygiene 2001.230, Overview of Occupational Therapy Philosophy & Services 1208.112, and Bio-Psycho-Social Development 1208.116.
10. Students must maintain a grade point average of 2.0 or better in each occupational therapy course as well as attain the cumulative grade point average required by the University. Any D grade in a required course will not count for major credit; a student receiving a D grade must retake the course and earn a grade higher than D.
11. Special Permit cards are required for admission to all occupational therapy courses.
12. It is highly recommended that students complete a standard course in First Aid before graduation.

In addition to the General College Requirements, the following courses are required of occupational therapy majors:

Occupational Therapy courses — total of 40 credits

Other required courses — total of 18 credits

Clinical internships — total of 22 credits

Occupational Therapy Curriculum

FIRST YEAR

First Semester

0401.101	Contemporary General Biology	4
2001.101	General Psychology	3
2208.101	Introduction to Sociology	3
1501.102	English Composition	3
1201.101	Current Health Problems	3
	Group IV (Physical Education)	1½
		16½

Second Semester

1902.101	General Physics B	5
1208.112	Overview of Occupational Therapy: Philosophy & Services (Fall & Spring) (Prereq. 0401.101, 2001.101 & 2208.101)	3
1208.116	Bio-Psycho-Social Development	3
2001.230	Mental Hygiene (Prereq. 2001.101)	3
	Group I	3
	Group IV (Physical Education)	1½
		15½

SECOND YEAR

Third Semester

0401.113	Anatomy and Physiology I	4
1208.211	Occupation as a Health Determinant (Prereq. 1208.112)	3
1208.213	Small Group Dynamics (Prereq. 1201.101, 2208.101)	3
1208.217	Task Analysis & Occupational Performance (Prereq. 1208.116)	4
1201.207	Health Care in the U.S.	3
		17

Fourth Semester

0401.114	Anatomy & Physiology II	4
1208.218	Task Analysis and Occupational Performance (Prereq. 1208.217)	4
1208.229	Introduction to Field Experience (Prereq. 1208.211, 0401.113, & 1208.217)	4
0835.311	Kinesiology	4
		16

THIRD YEAR

Fifth Semester

1208.311	Analysis of Human Motion (Prereq. 0401.113-114)	3
1208.313	Human Development through Occupation I (Prereq. 1208.229)	4
1208.315	Causes of Performance Dysfunction (Prereq. 0401.113-114, 2001.230 & 1208.229)	3
1208.319	Clinical Application I (Prereq. 1208.217-218)	2
	Group I Elective	3
2001.350	Personality	3
		18

Sixth Semester

1208.314	Human Development through Occupation II (Prereq. 1208.313)	4
1208.316	Causes of Performance Dysfunction (Prereq. 1208.315)	3
	Group III Elective	3
1208.320	Clinical Application II (Prereq. 1208.319)	2
1701.237	Biostatistics	4
		16

FOURTH YEAR

Seventh Semester

1208.428	OT Organization, Administration & Teaching	3
1208.429	Synthesis of Occupational Therapy	2
1208.430	Exploration in Dynamics of Occupation	2
	Group I Electives	6
	Group III Elective	3
		16

Eighth Semester

1208.435	OT Internship I	7
1208.436	OT Internship II	7
		14

In addition to the above courses, students are required to take two courses in Group I General University requirements during regular, summer, or minimester sessions as appropriate in individual circumstances.

OCCUPATIONAL THERAPY COURSES (1208)

Lower Division — Undergraduate

1208.112 OVERVIEW OF OCCUPATIONAL THERAPY: PHILOSOPHY AND SERVICES (1) An introduction to the philosophy of occupational therapy and a study of its practice, covering identification of clients, settings for practice, personnel, and historical factors. Spring & Fall.

1208.116 BIO-PSYCHO-SOCIAL DEVELOPMENT (3) A survey of the normal development process in human beings covering the entire life cycle, and including discussion of deviations from the normal. Stresses the development of work/play behavior; theoretical material and research findings are presented. Prerequisites: 0401.101, 2001.101, 2208.101. Spring.

1208.211 OCCUPATION AS A HEALTH DETERMINANT (3) Delineation and study of the relation of occupation to health, concentrating on a variety of types of occupation, including play, self-care, education, employment, recreation, leisure, and homemaking, and illustrating the effects of health and ill health on occupational behavior. Prerequisites: 1208.112. Fall.

1208.213 SMALL GROUP DYNAMICS (3) A study of small groups used in therapeutic or health education settings. Lectures will examine group members and leaders' roles, stages of a group's life, theory of developmental groups, and the structure and function of a variety of small groups used in therapy, education, and community settings. Participatory experiences will supplement lectures to promote personal communication and effectiveness in groups. Prerequisite: 2208.101, 2001.101.

1208.217-218 **TASK ANALYSIS AND OCCUPATIONAL PERFORMANCE** (4, 4) An introduction to the gathering of occupational history data, analyses of tasks and skills, development of occupational performance skills in areas pertinent to students' needs and interests, and adaptation of equipment for special requirements. Integrates knowledge and skills for occupational therapy services which foster healthy development, prevent health problems, maintain optimal function, and develop occupational performance skills. Prerequisites: 1208.112, 1208.116, 1208.217 — Fall; 1208.218 — Spring.

1208.229 **INTRODUCTION TO FIELD EXPERIENCE** (1-4) Equivalent of four to five weeks supervised field experience in occupational therapy programs designed to foster healthy development, prevent health problems, maintain optimal function, and develop occupational performance skills. Prerequisites: 1208.211, 1208.217, 0401.113 Spring.

Upper Division — Undergraduate

1208.311 **ANALYSIS OF HUMAN MOTION** (3) Presentation of the anatomy and physiology of the musculoskeletal system and of related neuroanatomical, neurophysiological, and kinesiology concepts. Human motion seen as integrated actions and related to the integration of body systems. Prerequisites: 0401.113-114, Fall.

1208.313-314 **HUMAN DEVELOPMENT THROUGH OCCUPATION I AND II** (4, 4) Principles of the application of occupational therapy to meet the needs of clients. Covers measurement and evaluation, remediation, precautions, and community resources. Laboratory experiences will be used to develop skills in selected areas. Prerequisites: 1208.229, 1208.313 — Fall, 1208.314 — Spring.

1208.315-316 **CAUSES OF PERFORMANCE DYSFUNCTION** (3, 3) The etiology, patho-physiology, performance effects, remedial approaches, objectives of occupational therapy, precautions, and prognoses of a series of major disabilities amenable to occupational therapy. The disabilities discussed include emotional, neurologic, orthopedic and general medical conditions. Prerequisites: 0401.113-114, 2001.230, 1208.229, 1208.315 — Fall, 1208.316 — Spring.

1208.318 **INDEPENDENT STUDY** (1-6) Directed independent study designed to provide students with an in depth investigation of an area or problem specific to occupational therapy. Consultation and supervision with designated faculty members and/or clinical practitioners.

Prerequisites: Undergraduate major in occupational therapy, consent of instructor.

208.319-320 **CLINICAL APPLICATION I AND II** (2, 2) Application of knowledge regarding clinical disorders and evaluation/treatment procedures in an occupational therapy practice setting under the supervision of a qualified registered occupational therapist. Prerequisites: 1208.217-218, 0401.113-114, to be taken concurrently with 1208.313-314, 1208.319 — Fall, 1208.320 — Spring.

1208.418 **ADVANCED SPECIALTY INTERNSHIP** (3-7) An optional field education experience of one to three months designed to meet special needs or interests. May include such areas of practice as mental retardation, cerebral palsy, sensory impairments, child psychiatry, adolescent psychiatry, special education, pediatrics, geriatrics, public health, drug abuse or penology. Prerequisites: 1208.313-314.

1208.428 **OCCUPATIONAL THERAPY ORGANIZATION, ADMINISTRATION AND TEACHING** (3) Administrative and organizational theory applied to occupational therapy service programs. Content includes personnel relationships and supervision, systems analysis, program planning, budgeting, space and facilities planning, communication systems, and programs for staff and student development. Prerequisite: 1208.313-314, Fall.

1208.429 **SYNTHESIS OF OCCUPATIONAL THERAPY THEORY AND PRACTICE** (2) Seminar designed to analyze problems encountered in educational and field situations and to focus on and analyze a variety of new occupational therapy topics depending on the needs and interests of students. Prerequisite: 1208.313-314, Fall.

1208.430 **EXPLORATION IN THE DYNAMICS OF OCCUPATION** (2) Guided, independent research in topics related to the dynamics of occupation, occupational therapy practices, and theory testing. Presentation of introductory materials on research methods and reporting of results. Prerequisite: 1208.313-314, Fall.

1208.435-436 **OCCUPATIONAL THERAPY INTERNSHIP I AND II** (7, 7) Three to four months each full-time supervised field experience with the opportunity to provide occupational therapy services to clients of both sexes, and varying ages. These field education courses must include a variety of learning experiences in perceptual-cognitive-motor development and physical and psychological function. They also include institutional and community delivery systems. Prerequisites: 1208.313-314, Spring.

History

Professors: ANDREWS, BLUMBERG, BOLES, J. COX, ESSLINGER, FALCO, JOCHENS, KAHL (Choirperson), KERR, LAREW, D. MARTIN, MATTHEWS, MRUCK, RIVERS, RYON, F. SANDERS, VAN OSDELL, WHITMAN

Associate Professors: HIRSCHMANN, McWILLIAMS, PIOTROWSKI, SCARPACI, SCHOLNICK

Assistant Professors: ELDRIDGE, SLADEK

The Department offers a major to encourage the student to explore in some depth the study of history. Such investigation, performed well, leads to an appreciation of the structure and function of the discipline, prepares the student for graduate work, and offers excellent background for many careers, particularly teaching and certain types of government service. The student is expected to take correlative courses which broaden his/her academic background and offer valuable insights into his/her major subject. The Department of History also strongly recommends the completion of two years of a foreign language.

The Department offers an honors program in history. Eligibility requirements and rules governing the University honors program are described elsewhere in this Bulletin. Students interested in the history honors program should consult their advisers and the Chairperson of the Department.

The following are the required courses for this academic department and the total number of credits needed by a student to fulfill this major. Students are reminded that they must also meet the General Education Requirements.

Departmental Office

Building — LI
Room — 119F
Phone — 321-2923

BACHELORS DEGREE . . . HISTORY

Requirements

Major — total — 36

2205.145	History of the United States to the Mid-Nineteenth Century	(3) _____
2205.146	History of the United States Since the Mid-Nineteenth Century	(3) _____
2205.241	History of European Civilization Through the Seventeenth Century	(3) _____
2205.242	History of European Civilization From the Seventeenth Century	(3) _____
2205.290	Introduction to Historical Study	(3) _____

One of the following:

Any 3 hour course in African history	(3) _____
Any 3 hour course in Asian history	(3) _____
Any 3 hour course in Latin American history	(3) _____

18 hours of electives offered by the department, at least 12 of which must be in courses at the 300-400 level:

_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____

The Bachelor of Arts Degree may be earned by adding a foreign language to the major course requirements. The language requirement can be met by completing the intermediate course of a modern foreign language or its equivalent.

Requirements

Minor — total — 24

2205.290	Introduction to Historical Study	(3) _____
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One of the following:

2205.107	Introduction to History of Islamic Civilization	(3) _____
2205.109	Introduction to the Civilization of India	(3) _____
2205.111	Traditional East Asia: China, Japan and Korea until 1700	(3) _____
2205.112	Modern East Asia: China, Japan and Korea Since 1700	(3) _____
2205.121	Latin America: Colonial Period	(3) _____
2205.122	Latin America: National Period	(3) _____
2205.133	The African World to the Fifteenth Century	(3) _____
2205.134	The African World Since the Fifteenth Century	(3) _____

Nine additional hours from courses offered by the department at the 100-200 level:

_____	(3) _____
_____	(3) _____
_____	(3) _____

Nine hours of electives offered by the department at the 300-400 level:

_____	(3) _____
_____	(3) _____
_____	(3) _____

Transfer Credit Policy of the Department

No more than 18 credit hours in history will be accepted toward a major or a minor from a regionally accredited four year college. No more than 12 lower division credit hours in history will be accepted toward a major or a minor from a regionally accredited two year college. The 12 credit hours must be in lower division courses which have Towson equivalents at the 100-200 level.

Special Recommendations for Majors and Minors

Students must declare their majors and minors in the History Department office. They will select an academic adviser who will help in preparing a program of courses. The major or minor should be declared during the second semester of the freshman year or at the beginning of the sophomore year. Majors and minors in history who are in the secondary education program are strongly urged to meet state certification requirements in Social Science. In addition to the history courses, certification requires six hours of economics, three hours of geography, three hours of political science, and three hours of sociology. Majors and minors who wish to student teach must have completed 15-18 hours of the required courses in history.

HISTORY COURSES (2205)

Lower Division — Undergraduate

2205.101	INTRODUCTION TO ANCIENT CIVILIZATION (3)	Political, social, economic, and intellectual forces which shaped the pattern of Near Eastern and European life from the Stone Age through the decline of the Roman Empire.
2205.107	INTRODUCTION TO HISTORY OF ISLAMIC CIVILIZATION (3)	A survey of the history and culture of the Islamic peoples from Muhammed to the present. Emphasis on the Arabic nations.

2205.109 INTRODUCTION TO THE CIVILIZATION OF INDIA (3) Development of the culture of South Asia from earliest times and the emergence of the present nations of Bangladesh, Pakistan, India, and Sri Lanka (Ceylon).

2205.111 TRADITIONAL EAST ASIA: CHINA, JAPAN AND KOREA UNTIL 1700 (3) An introductory survey of the historical development of the civilizations of China, Japan and Korea through the seventeenth century with special emphasis on cultural and institutional patterns.

2205.112 MODERN EAST ASIA: CHINA, JAPAN AND KOREA SINCE 1700 (3) An introductory survey of the historical development of China, Japan and Korea in the last centuries, focusing on their respective reactions to the Western World and on the patterns of nationalism, revolution, war and regeneration in these countries.

2205.121 LATIN AMERICA: COLONIAL PERIOD (3) The political, economic, and social developments in Portuguese and Spanish America from the pre-Columbian period to the movements for independence.

2205.122 LATIN AMERICA: NATIONAL PERIOD (3) The struggle for political, economic, and social stability, international relations and cultural patterns in the development of independent Latin America in the nineteenth and twentieth centuries.

2205.133 THE AFRICAN WORLD TO THE FIFTEENTH CENTURY (3) A multi-disciplinary approach to the study of African people from about 4500 B.C. to the fifteenth century.

2205.134 THE AFRICAN WORLD SINCE THE FIFTEENTH CENTURY (3) A multi-disciplinary approach to the study of African people south of the Sahara from the fifteenth century to the present.

2205.145 HISTORY OF THE UNITED STATES TO THE MID-NINETEENTH CENTURY (3) Political, economic, social, and cultural forces which shaped the pattern of life in the United States from the founding of the colonies to 1865.

2205.146 HISTORY OF THE UNITED STATES SINCE THE MID-NINETEENTH CENTURY (3) Continuation of 2205.145 from 1865 to the present.

2205.201 SURVEY OF ENGLISH HISTORY TO 1783 (3) Evolution of the political, legal, social, economic, and cultural institutions of England and the spread of the Empire overseas. The triumph of Parliament over the monarchy and the development of individual rights of Englishmen.

2205.202 BRITISH HISTORY SINCE 1783 (3) Struggle against France, the Industrial Revolution, and the rise of the bourgeoisie to political control. The spread of the empire, the symbolism of the Victorian era, and the evolution of democratic processes.

2205.241 HISTORY OF EUROPEAN CIVILIZATION THROUGH THE SEVENTEENTH CENTURY (3) Political, social, economic, and intellectual forces which shaped the pattern of European life from post-Roman times through the seventeenth century.

2205.242 HISTORY OF EUROPEAN CIVILIZATION FROM THE SEVENTEENTH CENTURY (3) Political, social, economic, and intellectual forces which shaped the pattern of European life from the seventeenth century to the present.

2205.277 A SURVEY OF JEWISH HISTORY (3) Political, cultural, and socio-economic experience of world Jewry from the Diaspora to the present. Emphasis on the nineteenth and twentieth centuries.

2205.280-289 TOPICS IN HISTORY (3) Development of Writing Skills and analytical thinking through the study of selected subjects in history; lectures, discussions, compositions, and examinations. (For specific topics see schedule booklet.) Prerequisite: 1501.102 or 1501.104.

2205.290 INTRODUCTION TO HISTORICAL STUDY (3) Survey of historical writings, the theory of history, introduction to research. Prerequisite: 1501.102 or 1501.104.

Upper Division — Undergraduate and Graduate

2205.301 ANCIENT NEAR EASTERN CIVILIZATIONS (3) The civilizations of Mesopotamia and Egypt and the peripheral developments in Syria-Palestine and Asia Minor. Prerequisite: 2205.101 or consent of instructor.

2205.303 HELLENISTIC CIVILIZATION (3) The civilization that arose in the Mediterranean Basin after the conquests of Alexander and the Roman Empire within this context. Prerequisite: 2205.101 or consent of instructor.

2205.304 ANCIENT GREEK CIVILIZATION (3) The civilization of classical Greece, including the Minoan and Mycenaean bronze age antecedents, to 362 B.C. Prerequisite: 2205.101 or consent of instructor. (Formerly 2205.302 Classical Civilizations).

2205.305 ROMAN CIVILIZATION (3) The civilization of ancient Rome from the foundation of the city to the collapse of the Roman empire in the West. Prerequisite: 2205.101 or consent of instructor. (Formerly 2205.302 Classical Civilizations).

2205.311 TRADITIONAL INDIA: ITS HISTORICAL DEVELOPMENT (3) Development of the history and culture of India from prehistoric times until the beginnings of European dominance in the eighteenth century. Prerequisite: Six hours of history or consent of instructor.

2205.312 HISTORY OF MODERN INDIA (3) The history of the Indian subcontinent since 1750, stressing the rise of British power, the colonial experiences, the development of nationalist movements, and the problems of independence in present-day India, Pakistan, and Bangladesh. Prerequisite: Six hours of history or consent of instructor.

2205.313 HISTORY OF MODERN SOUTHEAST ASIA (3) The development of Burma, Thailand, Malaysia, Indonesia, Cambodia, Vietnam, and the Philippines since 1500, with emphasis on the colonial experience and development of modern nationhood. Prerequisite: Six hours of history or consent of instructor.

2205.316 HISTORY OF MODERN CHINA (3) China from the beginnings of the Western penetration through the Nationalist and Communist revolutions of the twentieth century. Prerequisites: Six hours of history to include either 2205.111 or 2205.112 or consent of the instructor.

2205.317 HISTORY OF MODERN JAPAN (3) The political, economic, and cultural aspects of Japan's rapid modernization from the mid-nineteenth century and her subsequent expansion, defeat, and recovery. Prerequisite: Six hours of history to include either 2205.111 or 2205.112 or consent of instructor.

2205.321 HISTORY OF MEXICO: PRE-COLUMBIAN AND COLONIAL (3) The political, economic, social, and cultural developments from early Pre-Columbian civilizations to the movement for independence. Prerequisite: Six hours of lower division history.

2205.322 HISTORY OF MEXICO: NATIONAL PERIOD (3) The political, economic, social, and cultural developments from independence to the present. Prerequisite: Six hours of lower division history.

- 2205.325 HISTORY OF INDIANS IN LATIN AMERICA: MAYA, AZTEC AND INCA (3)** An ethno-historical examination of the social, economic and political aspects of some of the major indigenous civilizations of Latin America prior to the arrival of the first Europeans, with special attention to Maya, Aztec and Inca civilizations. Prerequisite: Three hours of history or anthropology or consent of the instructor.
- 2205.334 HISTORY OF WEST AFRICA: 1500-1885 (3)** The cultural, social, economic, and political institutions of the West African people from 1500 to 1885 with emphasis on the contributions made to African history by the Ashanti, the Old Oyo, the Dahomey, and the Bini. Prerequisite: 2205.133 or 2205.134 or 2202.207 or consent of instructor.
- 2205.335 HISTORY OF RECENT AFRICA (3)** The political, economic, cultural, and intellectual forces which shaped the lives of the African people since World War II. Prerequisite: 2205.133 or 2205.134 or 2205.242.
- 2205.345 THE AMERICAN COLONIES: 1492-1763 (3)** Founding and the political, economic, and social development of the American colonies. Prerequisite: 2205.145 or 2205.241 or consent of instructor.
- 2205.346 THE AMERICAN REVOLUTIONARY PERIOD: 1763-1789 (3)** From the end of the Seven Years' War to the ratification of the Constitution. Prerequisite: 2205.145 or 2205.241 or consent of instructor.
- 2205.347 THE EARLY NATIONAL PERIOD (3)** The United States from the Constitutional Convention to the Election of 1820. The Federalist Decade and the Jeffersonian Era. Prerequisite: 2205.145.
- 2205.348 THE JACKSONIAN ERA (3)** The United States from 1815 to 1845; political, social, and economic currents of the period. Prerequisite: 2205.145.
- 2205.349 THE CIVIL WAR (3)** Sectionalism, the coming of the war, and the war years. Emphasis on political, economic, and social issues. Prerequisite: 2205.145.
- 2205.350 THE ERA OF RECONSTRUCTION (3)** Political, economic, and social study of the Reconstruction era, the war years to 1877, and its aftermath. Prerequisite: 2205.145.
- 2205.351 THE GILDED AGE (3)** History of the United States from 1877 to 1892 with emphasis on the political, economic, and social questions of the era. Prerequisite: 2205.145 or 2205.146.
- 2205.352 THE POPULIST-PROGRESSIVE ERA (3)** History of the United States from 1892 to 1920 with emphasis on the political, economic, and social questions of the era. Prerequisite: 2205.145 or 2205.146.
- 2205.359 RECENT AMERICAN HISTORY: 1920-1945 (3)** History of the United States from the 1920's through World War II, with emphasis on the presidential years of Franklin D. Roosevelt. Prerequisite: 2205.146.
- 2205.360 RECENT AMERICAN HISTORY: 1945-1975 (3)** History of the United States from World War II through the mid 1970's, including political, social, economic, and diplomatic developments. Prerequisite: 2205.146.
- 2205.361 AMERICAN INTELLECTUAL HISTORY (3)** Analysis of the main religious and philosophical issues in United States history, especially Puritanism, Enlightenment, Transcendentalism, Darwinism and Pragmatism. Prerequisite: A course in United States history or American literature.
- 2205.363 SOCIAL HISTORY OF THE UNITED STATES TO 1865 (3)** History of American life from the seventeenth century to the Civil War, focusing on problems relating to social structure, popular culture, family, religious, and educational institutions. Prerequisite: 2205.145.
- 2205.364 SOCIAL HISTORY OF THE UNITED STATES SINCE 1865 (3)** History of American life from the Civil War to the present, focusing on problems relating to social structure, popular culture, family, religious, and educational institutions. Prerequisite: 2205.146.
- 2205.365 THE AGRICULTURAL ERA OF AMERICA (3)** A study of the development of agriculture and the commercial, financial, and manufacturing institutions in America from colonial times to the Civil War. Prerequisite: 2205.145.
- 2205.366 A HISTORY OF AMERICAN BUSINESS (3)** A study of industry, finance, commerce and agriculture from the Civil War to the present. Prerequisites: Three hours of history and either consent of instructor or Junior standing. (Also carries Business Administration major credit.)
- 2205.367 CONSTITUTIONAL HISTORY OF THE UNITED STATES TO 1868 (3)** Development of American constitutionalism in theory and practice to 1868. Prerequisite: 2205.145.
- 2205.368 CONSTITUTIONAL HISTORY OF THE UNITED STATES SINCE 1868 (3)** Continuation of 2205.367 since 1868. Prerequisite: 2205.146.
- 2205.369 DIPLOMATIC HISTORY OF THE UNITED STATES TO 1900 (3)** Evolution of the American national interest in foreign relations with Europe, Latin America, and the Far East from colonial times to 1900. Emphasis upon the changing character and role of objectives, policies, commitments, and forces. Prerequisite: 2205.145 or 2205.146.
- 2205.370 DIPLOMATIC HISTORY OF THE UNITED STATES SINCE 1900 (3)** Continuation of 2205.369 to the present with added interest in the emergence of the United States as a major world power. The role of the United States in modern warfare, world wide economic and financial affairs, overseas expansion, the diplomatic impact of conflict in ideologies, and current international crisis. Prerequisite: 2205.145 or 2205.146.
- 2205.371 RELIGION IN EARLY AMERICA (3)** The impact of religion upon American history and culture. Topics include Puritanism, the Great Awakening, American Revolution, separation of church and state, revivalism, and religious reform. Prerequisite: 2205.145.
- 2205.372 RELIGION IN MODERN AMERICA (3)** The growth of the various religious groups—Protestants, Catholics, and Jews—that dominate the United States today. Topics include the Black Church, religion and the Civil War, religion and the city, fundamentalism, Niebuhr, and civil religion. Prerequisite: 2205.146.
- 2205.373 THE COLONIAL AND TRANS-APPALACHIAN FRONTIER (3)** The westward movement and the effect of the frontier process on social, economic, and political institutions of the United States and the attitudes of the American people to 1850. Prerequisite: 2205.145.
- 2205.374 THE FAR WESTERN FRONTIER (3)** The expansion into the Trans-Mississippi West and the impact of the frontier process on the attitudes of the American people and on the social, economic, and political institutions of the United States in the nineteenth and twentieth centuries. Prerequisite: 2205.146.
- 2205.375 THE CITY IN AMERICAN HISTORY (3)** The development of the city and its impact on American social, cultural, intellectual, political, and economic life. Prerequisites: 2205.145, 2205.146 or two of the following: 2206.391, 2208.327, 2207.305 or consent of instructor.

- 2205.377 THE IMMIGRANT IN AMERICAN HISTORY (3) The history of the immigrant experience in America from the colonial period to the present. Emphasis on migration patterns, receptivity of native society, assimilation and acculturation processes. Prerequisites: 2205.145 and 2205.146.
- 2205.379 INDIAN-WHITE RELATIONS IN AMERICAN HISTORY (3) The interplay of societal attitudes, cultural beliefs, and official government policy and their impact on the Indian population of North America, from 1492 to the present. Prerequisite: Three hours of American history.
- 2205.381 HISTORY OF AFRO-AMERICANS (3) History of Americans of African ancestry from their West African background to the present. Emphasis on black Americans' thought, activities, organizations, and their role in developing America. Prerequisites: 2205.145 and 2205.146.
- 2205.383 AMERICAN RADICALISM SINCE 1890 (3) Leadership, organization, and theories of those who sought fundamental economic change in the United States; emphasis on anarchism, communism, and socialism. Prerequisite: Six hours of history or consent of instructor.
- 2205.385 AMERICAN LABOR (3) The changing nature of agricultural, domestic, and industrial work; business-labor relations; labor unions and leaders; role of labor in mainstream and radical political movements. Emphasis on the late nineteenth and twentieth centuries. Prerequisite: 2205.146 or three hours of economics.
- 2205.391 HISTORY OF CANADA (3) Canadian history with emphasis on the period since 1867. Particular attention will be given to the problems of cultural dualism and confederation. Prerequisite: 2205.145 or 2205.146 or 2205.242 or 2207.101.
- 2205.397 HISTORY OF MARYLAND FROM COLONIAL TIMES TO THE PRESENT (3) Major events and forces that have shaped the political, social, cultural, and economic development of Maryland. Prerequisite: Three hours of United States history.
- 2205.400 SEMINAR IN AMERICAN HISTORY (3) Reading and research dealing with a phase of history to be selected by the instructor; considerable attention to sources and historiography. Prerequisites: Consent of instructor and fifteen hours of history including 2205.290.
- 2205.401 THE EARLY MIDDLE AGES: 300-1050 (3) The rebuilding of Europe after the collapse of the Roman Empire. Emphasis on the Church Fathers, the Germanic tribes, Carolingian culture, Feudalism and the Vikings. Prerequisite: 2205.241.
- 2205.402 THE HIGH MIDDLE AGES: 1050-1350 (3) The flowering of medieval culture. Emphasis on the role of the church, the emergence of the national monarchies of western Europe, and the creation of towns and universities. Prerequisite: 2205.241.
- 2205.403 THE RENAISSANCE ERA: 1300-1530 (3) Political, economic, social, and cultural changes in late medieval and Renaissance Europe. Prerequisite: 2205.241 or consent of the instructor.
- 2205.404 THE REFORMATION: 1500-1648 (3) Religious, political, economic, and social changes in Reformation and Counter-Reformation Europe. Prerequisite: 2205.241 or consent of the instructor.
- 2205.405 EUROPE: 1648-1815 (3) European state system and expansion of European civilization; intellectual growth and class relationships culminating in the French Revolution and Napoleon. Prerequisite: 2205.242.
- 2205.406 EUROPE: 1815-1914 (3) Major economic, political, social, and intellectual currents of the period. The effects of the industrial revolution, the development of nationalism and imperialism, and the origins of World War I. Prerequisite: 2205.242.
- 2205.407 EUROPE: 1914-1939 (3) Events leading to World War I, the conflict, and the peace which followed. The rise of conflicting political ideologies and the road to World War II. Prerequisites: 2205.241 and 2205.242.
- 2205.408 EUROPE SINCE 1939 (3) World War II—diplomacy, strategy, and results. The economic, social, and political recovery of post-war Europe and the development of new alliance structures. Prerequisites: 2205.241 and 2205.242.
- 2205.410 EUROPEAN SOCIAL HISTORY SINCE THE EIGHTEENTH CENTURY (3) Dynamics of change in an industrializing society with class structure as the framework for understanding the transformation of organizations and institutions in which individuals experienced relationships and through which they expressed values. Prerequisite: 2205.242 or six hours of upper division sociology.
- 2205.411 HISTORY OF EUROPEAN WOMEN (3) Women from the Greeks to the French Revolution, their place within the family, their role in production, their legal and financial position, their educational opportunities, and their access to power and prestige. Prerequisite: 2205.101 or 2205.241 or 2205.242 or three hours in Women's Studies.
- 2205.413 EUROPEAN MILITARY HISTORY SINCE 1815 (3) Wars, inter-war military developments, and civil-military relations seen in the context of European diplomacy and socio-economic history since Napoleon. Emphasis on the two world wars. Prerequisite: 2205.242 or consent of the instructor.
- 2205.415 DIPLOMATIC HISTORY OF EUROPE: 1815-1939 (3) A study in depth of specific diplomatic crises, with emphasis upon the impact of each upon the European Balance of Power. Prerequisite: 2205.242.
- 2205.417 ECONOMIC HISTORY OF EUROPE TO THE MID-EIGHTEENTH CENTURY (3) A study of European economy to the middle of the eighteenth century. Particular attention will be given to the development of commerce, capitalism, manufacture, and mercantilism. Prerequisite: 2205.241.
- 2205.418 ECONOMIC HISTORY OF EUROPE SINCE THE MID-EIGHTEENTH CENTURY (3) The industrialization of Great Britain, France, Germany, Russia, and peripheral nations from the middle of the eighteenth century. Prerequisite: 2205.242.
- 2205.419 EUROPEAN INTELLECTUAL HISTORY TO 1789 (3) Religious, scientific, political, and social theories seen in their historical context from the early Middle Ages to 1789; emphasis on the seventeenth and eighteenth centuries. Prerequisite: 2205.241 or 2205.242 or consent of the instructor.
- 2205.420 EUROPEAN IDEAS: FRENCH REVOLUTION TO THE PRESENT (3) Religious, scientific, political, and social theories of the European intellectual class seen in their historical context from the French Revolution to the present. Prerequisite: 2205.242 or consent of the instructor.
- 2205.421 BRITAIN IN THE TWENTIETH CENTURY (3) The role of Britain, the Commonwealth, and the Empire. Social reform and World War I, efforts to recover economic equilibrium, World War II, decline of the Empire and Socialism. Prerequisite: 2205.241 and 2205.242.

- 2205.431 FRANCE: 1763-1871 (3) Old Regime and the impact of successive revolutions upon French society. Emphasis upon the role of France in the growth of European liberalism and nationalism. Prerequisite: 2205.242.
- 2205.441 GERMANY: 1871-1945 (3) Brief topical analysis of the nineteenth century background. Concentration on the Bismarckian Empire, Weimar Republic, and the Third Reich, emphasizing the interrelationships between internal developments and Germany's role in Europe and the world. Prerequisite: 2205.242.
- 2205.451 RUSSIA: 1696-1894 (3) Political history and theory, social relations, economic, cultural and literary development, and growth of the Russian states from Peter the Great until Nicholas II. Prerequisite: 2205.242
- 2205.452 RUSSIA/SOVIET UNION: 1894-1953 (3) Political, ideological, economic, and cultural factors influencing the fall of the monarchy, the Bolshevik Revolution, Leninism, and Stalinism. Prerequisite: 2205.242 or consent of instructor.
- 2205.453 HISTORY OF SOVIET RUSSIA SINCE STALIN, 1953 TO PRESENT (3) Topical analysis of political history and theory, economic development, foreign affairs, social changes, and cultural and literary trends. Prerequisite: 2205.242 or 2204.331 or 2207.338 or 2207.339 or 2207.432 or 2206.453.
- 2205.461 SEMINAR IN EUROPEAN HISTORY (3) Reading and research dealing with a phase of history to be selected by the instructor; considerable attention to sources and historiography. Prerequisites: Consent of instructor and fifteen hours of history including 2205.290.
- 2205.477 EUROPE IN THE THIRD WORLD: COLONIALISM TO CRISIS (3) The impact of modern European Colonialism on the societies of the Third World, chiefly Africa and Asia. Primary emphasis on the period after 1914. Prerequisite: Six hours of Modern European, African, Asian, or Latin American history.
- 2205.479 A HISTORY OF DIPLOMACY (3) Evolution from its origins to the present with emphasis on the modern period. Historic changes which shifting ideologies and new technologies have wrought in the role of the diplomat. Prerequisites: 2205.241 and 2205.242.
- 2205.481 HISTORY OF MANAGEMENT (3) The theory, organization, and operation of selected political, religious, military, economic, and social institutions of the western world. Prerequisites: Three hours of history and either consent of instructor or Junior standing. (Also carries Business Administration major credit.)
- 2205.483 DIRECTED INDIVIDUAL RESEARCH (2-4) Research and reading dealing with a historical topic to be selected by the instructor and student; considerable attention to methodology. Prerequisites: Fifteen hours of history and a minimum average of 3.0 in history and consent of the instructor and the Department Chairperson.
- 2205.489 ORAL HISTORY (3) Lectures, demonstrations, and extensive fieldwork in the techniques and methods essential to collecting tape recorded reminiscences of historical value. Topic to be selected by the instructor. Extra work will be required of graduate students and the course may not be taken more than one time. Prerequisites: Consent of the instructor and six hours of history appropriate to the topic.
- 2205.490 INTERPRETIVE PROBLEMS IN HISTORY (3) An in-depth study of historical interpretations of selected topics. Prerequisite: Twelve hours of history appropriate to topic.
- 2205.491 BIOGRAPHICAL STUDIES IN HISTORY (3) A study of selected historical figures who have shaped

or reflected the past. Figures to be selected by the instructor. Prerequisite: Six hours of history appropriate to topic.

- 2205.492 HISTORICAL THEMES (3) A study through lectures and discussions of a historical topic selected by the instructor. Prerequisite: Six hours of history appropriate to topic.
- 2205.493 PRACTICUM (2-6) Experience designed to combine the research and content of history with work in historical libraries, museums, archival depositories, and similar agencies. No more than six hours to be earned with any one agency. Prerequisites: Twenty-seven hours of history courses and consent of the Department Chairperson. Graded under S/U procedure.
- 2205.494 TRAVEL AND STUDY (3-6) Countries and topics to be selected by the Departments and instructors sponsoring the program. For complete information, write the Chairperson of the Department early in the fall of the academic year preceding the semester of intended study. Prerequisites: Upper division status and consent of instructor.
- 2205.495 SEMINAR IN COMPARATIVE STUDIES (3) Reading and research in history or related disciplines approached from a viewpoint that is primarily historical and dealing with specific topics, problems, or developments selected by the instructor(s). Prerequisites: Consent of instructor and fifteen hours of history including 2205.290, or six hours of history and a research methods course and six additional hours of the related discipline.
- 2205.496 COLLOQUIUM (3) Group discussion of reading in history or related disciplines approached from a viewpoint that is primarily historical and dealing with broad periods, topics, problems or comparative developments selected by the instructor(s). Prerequisites: Consent of the instructor and fifteen hours of history or nine hours of history and six hours of the related discipline.
- 2205.497 DIRECTED READING (2-4) Independent reading in history or related disciplines approached from a viewpoint that is primarily historical and dealing with specific periods, topics, problems or comparative developments selected by the student in consultation with the instructor(s). Prerequisites: Fifteen hours of history or nine hours of history and six hours of the related discipline and a minimum average of 3.0 in history and the related discipline and consent of the Department Chairperson.
- 2205.498 PHILOSOPHY OF HISTORY (3) The philosophical foundations of historical knowledge; free will versus determinism; development from ancient times to the present of different philosophical interpretations of history. Prerequisites: Twelve hours of history or six hours of history and six hours of philosophy.
- 2205.499 SENIOR THESIS (4-8) Research and the writing of a thesis, to be directed by a faculty member in a chosen area of specialization. Prerequisite: Admission to Departmental Honors Program.

Graduate Division

- 2205.599 SEMINAR IN UNITED STATES HISTORY TO 1865 (3) Research dealing with a phase of United States history to 1865 to be selected by the instructor. Prerequisites: Graduate standing, eighteen hours of history and consent of the instructor and the Department Chairperson.
- 2205.600 SEMINAR IN UNITED STATES HISTORY SINCE 1865 (3) Research dealing with a phase of United States history since 1865 to be selected by the instructor.

Prerequisites: Graduate standing, eighteen hours of history and consent of the instructor and the Department Chairperson.

2205.661 SEMINAR IN NINETEENTH CENTURY EUROPEAN HISTORY (3) Research dealing with a phase of nineteenth century European history to be selected by the instructor. Prerequisites: Graduate standing, eighteen hours of history and consent of the instructor and the Department Chairperson.

2205.662 SEMINAR IN TWENTIETH CENTURY EUROPEAN HISTORY (3) Research dealing with a phase of twentieth century European history to be selected by the instructor. Prerequisites: Graduate standing, eighteen

hours of history and consent of the instructor and the Department Chairperson.

2205.683 DIRECTED INDIVIDUAL RESEARCH (2-4) Research and reading dealing with a historical topic to be selected by the instructor and student, considerable attention to methodology. Prerequisites: Graduate standing, eighteen hours of history and consent of the instructor and the Department Chairperson.

2205.697 DIRECTED READING IN HISTORY (2-4) Independent reading in areas of history selected by the instructor and the student. Prerequisites: Graduate standing, eighteen hours of history and consent of the instructor and the Department Chairperson.



Instructional Technology

Professor: LOGAN

Associate Professors: WEST, ROSECRANS (*Choirperson*)

Assistant Professors: BURTON, CHEEKS, DIETZ

Instructors: JONES

Assistant Instructor: SCRUGGS

The Department offers a major in Instructional Technology which is designed to prepare students for school library media positions. Students completing the program would also be prepared for various positions in other library media centers or information resource centers. The program is an integrated media program (print and non-print) which prepares students for state certification as an Educational Media Associate, Level I. Since standard professional certification (Level II) requires a graduate degree, students electing this major are urged to continue in the graduate program.

Departmental Office

Building — MC

Room — 227

Phone — 321-2575

BACHELORS OF SCIENCE DEGREE . . . INSTRUCTIONAL TECHNOLOGY

The following are course requirements for the completion of a major in Instructional Technology. In addition to these requirements, all students must fulfill the general University requirements as specified in the Towson State University Bulletin.

Psychology and Education Course Requirements

Total 30

2001.101	General Psychology	(3)_____
2001.201	Educational Psychology	(3)_____
2001.203	Human Growth and Development	(3)_____
0803.319	Survey of Educational Programs	(3)_____
0823.361	Teaching Reading in Early Childhood Education	
	OR	
0802.323	Teaching Reading in the Elementary School	
	OR	
0803.360	Teaching Reading in the Secondary School	(3)_____
0801.417	Children's Literature	
	OR	
0801.418	Young Adult Literature	(3)_____
0801.397	Practicum: The Media Center in the Elementary School	(6)_____
0801.398	Practicum: The Media Center in the Secondary School	(6)_____

Instructional Technology Course Requirements

Total 22

0601.301	Utilization of Instructional Media	(3)_____
0601.302	Design and Production of Instructional Materials	(3)_____
0601.311	School Media Center Administration	(3)_____
0601.471	Reference and Information Sources	(3)_____
0601.473	Cataloging and Classification of Media	(3)_____
0601.475	Methods for Media Personnel in the Elementary School	(2)_____
0601.477	Methods for Media Personnel in the Secondary School	(2)_____

Advising

All prospective majors must register with the Department

of Instructional Technology as soon as possible during the first year on campus and are urged to consult with the departmental advisor in planning each semester's course of study.

Transfer Students

The Department of Instructional Technology accepts upper division courses from other accredited colleges and universities. At least half of the courses required for the major must be taken at Towson State University.

The Department of Instructional Technology offers a comprehensive graduate program which prepares professionals for careers in the instructional media field. Track I is intended for the person who wishes to emphasize a specialty such as instructional television, photography and graphics, or audiovisual communications. Track II is intended for the person who plans to direct a MEDIA Center operation. Persons holding this degree are eligible for certification by the Maryland State Department of Education as an Educational Media Generalist (Level II).

INSTRUCTIONAL TECHNOLOGY COURSES (0601)

Upper Division — Undergraduate Only

- 0601.269 LABORATORY IN INSTRUCTIONAL HARD-
WAKE (1) The course will emphasize the development of skills required in the operation of selected instructional hardware. a. Required of all Secondary Education majors during student teaching; 0601.301 may also be used to fulfill this requirement. b. Not open to students who have completed ISTC 0601.301 or 0601.415 (no longer offered).
- 0601.302 DESIGN AND PRODUCTION OF INSTRU-
TIONAL MATERIALS (3) Students are required to design and produce selected instructional materials. Prerequisite: Junior standing or above. Lab fee \$10.00.
- 0601.304 THE PRODUCTION OF INSTRUCTIONAL
PRESENTATIONS (3) Emphasis is placed on both the basic knowledge and skills necessary to produce instructional presentations in four major formats: audio tape, video format, synchronized slide-tape program, and super 8mm film properly sequenced. Student acquires experience in producing each of the four types of productions as well as developing instructional guides accompanying each. Prerequisites: Junior standing or above. Lab fee \$10.00.
- 0601.311 SCHOOL MEDIA CENTER ADMINISTRA-
TION (3) An examination of the organization and administration of media centers for service to students and faculty in school settings such as self-contained classrooms, open-space schools, and in independent study situations. Specific topics studied include planning and equipping media centers, routines, budgets, personnel, and criteria for evaluating school media services. Prerequisite: Junior standing or above.
- 0601.313 EVALUATION AND SELECTION OF MEDIA
(3) A study of evaluating techniques for print and non-print media. Prerequisite: Junior standing or above.
- 0601.475 METHODS FOR MEDIA PERSONNEL IN
THE ELEMENTARY SCHOOL (2) The evaluation of the school library-media center's function and services in curriculum work with teachers and students. Methods of preparing and utilizing the media program. (To be taken concurrently with 0801.397 Practicum: The Media Center in the Elementary School). Prerequisite: Admission by

consent of Coordinator of the General Studies Program in Education and the ISTC Chairperson. Special Permit.

0601.477 **METHODS FOR MEDIA PERSONNEL IN THE SECONDARY SCHOOL (2)** The evaluation of the school library-media center's function and services in curriculum work with teachers and students. Methods of preparing and utilizing the media program. (To be taken concurrently with 0801.398 Practicum: The Media Center in the Secondary School). Prerequisite: Admission by consent of the Coordinator of the General Studies Program in Education and the ISTC Chairperson. Special Permit.

0801.397 **PRACTICUM: THE MEDIA CENTER IN THE ELEMENTARY SCHOOL (6)** Supervised media center practice in an elementary or middle school. Intended to be taken in one-half of a semester concurrently with 0601.475 Methods for Media Personnel in the Elementary School. Prerequisite: Admission by consent of Department Chairperson. Graded under S/U procedure.

0801.398 **PRACTICUM: THE MEDIA CENTER IN THE SECONDARY SCHOOL (6)** Supervised media center practice in a secondary school. Intended to be taken in one-half of a semester concurrently with 0601.477. Methods for Media Personnel in the Secondary School. Prerequisite: Admission by consent of Department Chairperson. Graded under S/U procedure.

Upper Division — Undergraduate and Graduate

0601.301 **UTILIZATION OF INSTRUCTIONAL MEDIA (2 or 3)** Materials, devices, techniques and settings are presented in an overview of the field of instructional technology. Laboratory experiences are provided in the operation of instructional hardware. Must be taken for two hours credit if student has taken 0601.269. Prerequisite: Junior standing or above.

0601.401 **HISTORY OF INSTRUCTIONAL TECHNOLOGY (3)** An examination of the development of instructional technology. Particular emphasis is placed on the developing role of instructional technology and its historical antecedents. Prerequisite: Junior standing or above.

0601.423 **INSTRUCTIONAL MOTION PICTURE FILM-MAKING I (3)** This course provides an introduction to the production of motion picture films designed for instructional use. Included in the course are basic filmmaking techniques, scripting, editing, and a survey of motion filming equipment. Lab fee \$15.00. Prerequisite: Junior standing or above.

0601.431 **SURVEY OF LEARNING BY TELEVISION (3)** History, status, and goals of television used for learning. Topics include: television systems (cable, satellite, etc.), programming sources, legal ramifications, instructional television, sources of funds, comparative costs, special projects, current research and sources of data. Students will be required to demonstrate competencies in the operation of some portable television equipment. Prerequisite: Junior standing or above.

0601.435 **INSTRUCTIONAL TELEVISION UTILIZATION (3)** A course combining televised lessons, on-campus seminars, and related workbook assignments. (This three credit upper division undergraduate and graduate level course focuses upon planning for the uses of instructional television with students). State, local school unit, school, and classroom uses will be illustrated through film and studio production. In addition, the production elements for ITV programming are developed through the television lessons and "hands-on" assignments in the seminars. The course does not carry Master's Degree credit. Credit cannot be earned for this course and

0601.431. Prerequisite: Student teaching or practicum experience and junior standing.

0601.441 **COMPUTER TECHNOLOGY AND UTILIZATION (3)** Exploratory course concerned with the rationale for and use of computers in learning and related administrative matters. Techniques are examined for the organization, storage, processing, and retrieval of data. Applications include the computer for instruction, the management of instruction, simulation, generation of graphics, and accounting for software and hardware. Key-punching, flow charting, and time sharing computer experiences are provided. Field trips to on and off campus computer installations are taken. (Note: The course will not prepare students for occupations in computer science). Prerequisite: Junior standing or above.

0601.453 **INTRODUCTION TO INSTRUCTIONAL PHOTOGRAPHY (3)** This course presents basic planning and darkroom methods for preparing photographic materials. Although the thrust of the course is the black and white mode, color slides and other special topics are treated. Principles of visual literacy are stressed. Students are required to demonstrate competencies in darkroom utilization and print critiqueing as well as print production. Lab fee \$15.00. Prerequisite: Consent of Department Chairperson.

0601.455 **MEDIA DESIGN AND PRODUCTION I (3)** Students learn the design and production of teacher-made instructional materials and are required to demonstrate their competency in the production of selected materials. Lab fee \$15.00. Prerequisite: Junior standing or above.

0601.456 **MEDIA DESIGN AND PRODUCTION II (3)** Students will demonstrate competencies in selected advanced production techniques and in systematic planning of instructional materials. Research and theory relevant to perception and communication are explored. Prerequisites: 0601.455 and Special Permit.

0601.471 **REFERENCE AND INFORMATION SOURCES (3)** The bibliographic method, fundamental reference sources, and searching techniques for print and non-print materials are examined. Students are required to demonstrate competencies in the use of reference sources. Prerequisite: Junior standing or above.

0601.473 **CATALOGING AND CLASSIFICATION OF MEDIA (3)** Cataloging, subject analysis, classification and bibliographic control. The use of commercial processing services and central processing in the school system. The concept of a unified catalog and materials center for print and non-print materials is stressed. Prerequisite: Junior standing or above.

0601.487 **THEORY AND TECHNIQUES OF PROGRAMMED INSTRUCTION (3)** Both linear and intrinsic or branching programming are examined. Commercial and teacher-made programs are evaluated. Students are required to demonstrate competencies in the design and production of instructional programs. Prerequisite: Junior standing or above.

Graduate Division

0601.501 **ORGANIZATION AND ADMINISTRATION OF MEDIA CENTER PROGRAMS (3)** Organizational patterns, management procedures, and supervisory methods and techniques for instructional materials centers are considered. Major topics include: facilities; finance; selection, procurement, security and basic maintenance of equipment and materials; center operation; extension and in-service programs; assessments of systems and programs; and public relations. Prerequisite: Six hours of instructional technology courses at the 400 level or above and consent of Chairperson.

- 0601.515 **MEDIA SELECTION (3 or 4)** The course will include: (1) criteria used to select media, (2) classroom management techniques when using media, and (3) various evaluation instruments. Students will be required to provide a written rationale for (1) choosing specific materials, (2) providing a particular instructional setting for the learner, and (3) constructing a particular evaluation instrument. Prerequisite: 0601.485.
- 0601.533 **INSTRUCTIONAL TELEVISION (3)** The ITV movement; ITV systems and terminology; elements of production; classroom utilization of the ITV product; developing the ITV workshops; careers in ITV; and aspects of administration, philosophy, evaluation and research in ITV. Students will be required to demonstrate competencies in critiquing ITV programs, and in writing and production of scripts utilizing appropriate television facilities. Prerequisite: 0601.485.
- 0601.534 **INDEPENDENT STUDY: INSTRUCTIONAL MOTION PICTURE FILMMAKING II (3)** This course, building on previously acquired fundamentals, culminates in the production of an instructional motion picture for classroom use. To this end, the student will explore and develop a working knowledge of scriptwriting techniques, directional techniques, including areas such as: background, audio, lighting, and optics applications. Special effects techniques, such as animation, slow and stop motion, will be developed in the course. Independent study under close supervision of instructor. Lab fee \$15.00. Prerequisite: 0601.423 and written permit.
- 0601.563 **APPLIED PSYCHOLOGY OF LEARNING (3)** Behaviorist and gestalt learning theories are examined. Particular emphasis is placed on the concepts of Gagne and Piaget. A research paper is required of students. Prerequisites: 0601.301 and one other instructional technology course.
- 0601.567 **INSTRUCTIONAL DEVELOPMENT (3)** Includes an overview of the systems approach and its use in problem solving. The application of the systems approach with instructional technology to the problems of instruction is studied in detail. Students are required to demonstrate competencies in designing mediated instructional sequences and in evaluating media with behavioral descriptors. Prerequisites: 0601.563 and written permit.
- 0601.573 **INSTRUCTIONAL FACILITIES DESIGN (3)** A systems approach to the integration of media and facilities into a single unit to fulfill instructional training goals. Includes a schedule of time and sequential phasing to insure orderly relationships and interaction of human, technical, and environmental resources. Included are the application of equipment and facilities designed to mediate self-instruction as a part of individually prescribed instruction as well as equipment and facilities designed for large group or multi-media instruction. Student projects include facility designs for academic/training utilization. Prerequisite: Six hours of instructional technology courses at the 400 level or above and written permit.
- 0601.585 **SEMINAR IN INSTRUCTIONAL TECHNOLOGY (3)** The student is required to do investigative work in the literature of instructional technology and to write four extensive papers in class which analyze, synthesize, and evaluate this literature. Students who do not receive at least a "B" in this course, must take an advancement examination. Prerequisite: 0601.301.
- 0601.689 **INTERNSHIP IN INSTRUCTIONAL TECHNOLOGY (6)** The student will work in a school media center under professional supervision. This course satisfies practicum requirements for certification as a media specialist or media generalist. \$106 fee. Prerequisites: 0601.471, 0601.473, 0601.501 and 15 additional credits in ISTC courses and requires written permit.
- 0601.695 **INTRODUCTION TO RESEARCH IN INSTRUCTIONAL TECHNOLOGY (3)** Elements of research writing are investigated and basic concepts of inferential statistics are studied. Additionally, relevant research in the field of instructional technology is examined. Students are required to demonstrate competencies in research writing. Prerequisite: Six credits of instructional technology courses at the 500-600 level and written permit.
- 0601.697 **SUPERVISED FIELD EXPERIENCES IN INSTRUCTIONAL TECHNOLOGY (3)** The student must complete a project of a practical nature under the direction of a faculty advisor. A formal paper is required with Departmental approval. The course may be taken twice for credit. Prerequisites: 0601.695 and written permit.
- 0601.699 **MASTER'S THESIS IN INSTRUCTIONAL TECHNOLOGY (3 or 6)** An original investigation, using an acceptable research method and design, of a research problem, to be conducted under the direction of one or more faculty members. Credit granted only after thesis has been accepted by student's thesis committee. Prerequisite: Fifteen credits of instructional technology courses at the 400 level or above; departmental chairperson approval; and written permit.

International Studies

Coordinator: DAVID FIRMAN

I. Purpose:

To provide an interdisciplinary system of courses which will lead to an arts and science major in international studies, with opportunities to specialize in foreign areas. The major program is designed to prepare students for graduate studies, for careers in foreign service and other government agencies, and in commercial and industrial fields where foreign area specialists are required.

II. Organization and Administration:

The program is administered by a committee composed of representatives from the following disciplines: business administration, economics, geography and environmental planning, history, political science, and sociology. The current members of the Committee who will also serve as advisors to students majoring in international studies are: David Firman, Professor of Geography (Chairman of the Committee); Arnold Blumberg, Professor of History; David Dent, Professor of Political Science; Edwin Hirschmann, Professor of History; Abolmajeed Hojjati, Professor of Sociology; Pritam Merani, Professor of Political Science; and Henry Sanborn, Professor of Economics.

III. Scope:

All students majoring in international studies will complete 18 credit hours of required courses (indicated under IV A) and 27 credit hours of related electives under one of the two plans listed below:

Plan A — Functional Specialization (Non-Area)

Under this plan, students will complete 27 elective hours of courses related to international affairs without concentration on any geographical area.

Plan B — Area Specialization

This plan is designed to focus on important world regions. Students will complete 27 credit hours in related elective courses which concern a particular region. Area specialization on Asia (South, Southeast, and East) is currently available, in which students may elect Asian courses as follows: (1) courses from at least three different departments, and (2) at least three courses from areas other than the one of specialization. The remaining credits may be completed by taking courses in any of the departments in consultation with an adviser. Specialization on Western Europe, Latin America and other regions are possible on a less formal basis.

Departmental Office

Building — LI
Room — 26
Phone — 321-2962

IV. Major Requirements:

A. Required courses for the major are as follows:

1. Economics* 3 credit hours
2204.331 Comparative Economic Systems
OR
2204.315 Economic Development
OR
2204.327 International Economics
2. Geography and Environmental
Planning* 3 credit hours
2206.381 Political Geography
3. History* 3 credit hours
2205.370 Diplomatic History of the United States
Since 1900
OR
2205.415 Diplomatic History of Europe 1815 to 1939
OR
2205.479 A History of Diplomacy
4. Political Science* 6 credit hours
2205.303 Theory of International Politics
2207.428 Political Theory
5. Sociology* 3 credit hours
2202.207 Cultural Anthropology
OR
2202.357 Ideology, Power, and Society

B. Related Electives 27 credit hours

These may be selected from any department which offers related electives, i.e., sociology, English literature, languages, art, philosophy, etc. Such courses will be selected by students in consultation with advisers, in order to broaden and/or specialize as desired under Plans A or B.

C. Foreign Language:

A foreign language is required for the major. Students must select one of several languages in relation to their foreign area or functional interests as determined by their advisers. A student should be prepared to demonstrate a workable reading knowledge of that language. This requirement may be met by completing the intermediate course or equivalent of a modern foreign language.

V. Transfer Students:

Transfer Students must take a minimum of 18 credits of upper division courses in International Studies at Towson State to fulfill requirements for the major.

Attention is also called to the following: Thematic (regional) options on ASIAN STUDIES and LATIN AMERICAN STUDIES available under Arts and Science Major page ...

* Please consult this catalog for individual department prerequisites for these upper division courses. Most of the prerequisites can also be applied to the General College Requirements.

Mathematics

Professors: HANSON, HORAK, SIEGEL, ZIMMERMAN
Associate Professors: BECKEY, DAVIS, GRAVES, HASTE, KIM

Assistant Professors: CHEN, FISCHER, HARR, ILGENFRITZ (Chairperson), JONES, KAPLON, LIDTKE, NEUBERT, RIGGLEMAN, RUTENBERGS, SCHMITT, SILLARS, SMITH, SWENSEN, WAGNER

Instructor: MacKENZIE, ROSE

PHILOSOPHY

The mathematics curriculum provides opportunities for students to do abstract reasoning applicable to many scientific or academic areas, to survey the field of mathematics, to study the applications of the discipline, and to prepare for additional study or for a career. The major programs prepare students for various careers, while the minor programs enhance most undergraduate concentrations.

The following are the required courses for this academic department and the total number of credits needed by a student to fulfill this major. Students are reminded that they must also meet the General Education Requirements.

Departmental Office

Building — ST
Room — 110A
Phone — 321-3091

BACHELORS DEGREE MATHEMATICS

(Secondary Education Program for those planning to be secondary school teachers.)

Requirements

Major — total 66-67

1701.261	Fundamentals of Mathematics	(3) _____
1701.273	Calculus I	(4) _____
1701.274	Calculus II	(4) _____
1701.353	Elementary Geometry from an Advanced Standpoint	(3) _____
1701.361	Algebraic Structures	(4) _____
1701.423	Teaching Mathematics in Secondary Schools	(3) _____
0701.235	Fundamentals of Computing	(3) _____
1902.221-222	General Physics	(8) _____

OR 1902.315 (Math. of Motion) and one course selected from: 0401.401, 0506.363, 204.451, 2206.375, 2208.391, 1902.301, 1902.321 or a course submitted by the student to the Mathematics Department and approved by the Mathematics Department for this elective (7-8) _____

Student must take enough 300-400 level Mathematics courses to make a total of 30 hours in mathematics. 1701.423 may not be counted in this 30 hours. Either Computer Science 0701.306 or 0701.338 may be counted towards these 30 hours but not both.

_____	(3-4) _____	
_____	(3) _____	
_____	(3) _____	
_____	(3) _____	
0801.101	Careers in Education	(2) _____
2001.201	Educational Psychology	(3) _____
0803.341	Prin. of Secondary Education	(3) _____
0601.369	Education Media Lab.	(1) _____

0803.398	Student Teaching in Secondary Schools	(10) _____
0801.401	Foundations of Education	(3) _____

BACHELORS DEGREE MATHEMATICS ARTS & SCIENCE PROGRAM

(Pure Mathematics option. Recommended for those who intend to do graduate study in mathematics.)

Requirements

Major — total 48

1701.273	Calculus I	(4) _____
1701.274	Calculus II	(4) _____
1701.261	Fundamentals of Math	(3) _____
1701.365	Linear Algebra	(3) _____
1701.373	Calculus III	(4) _____
0701.235	Fundamentals of Computing	(3) _____
1902.221-222	General Physics	(8) _____

OR 1902.315 (Math. of Motion) and one course selected from: 0401.401, 0506.363, 204.451, 2206.375, 2208.391, 1902.301, 1902.321 or a course submitted by the student to the Mathematics Department and approved by the Mathematics Department for this elective (7-8) _____

1701.361	Algebraic Structures	(4) _____
1701.473	Advanced Calculus I	(3) _____
1701.474	Advanced Calculus II	(3) _____

Three additional 300-400 level mathematics courses

_____	(3) _____
_____	(3) _____
_____	(3) _____

BACHELORS DEGREE MATHEMATICS ARTS & SCIENCE PROGRAM

(Applied Mathematics Option)

Requirements

Major — total 47-48

1701.273	Calculus I	(4) _____
1701.274	Calculus II	(4) _____
1701.261	Fundamentals of Math	(3) _____
1701.365	Linear Algebra	(3) _____
1701.373	Calculus III	(4) _____
0701.235	Fundamentals of Computing	(3) _____
1902.221-222	General Physics	(8) _____

OR 1902.315 (Math. of Motion) and one course selected from: 0401.401, 0506.363, 2204.451, 2206.375, 2208.391, 1902.301, 1902.321 or a course submitted by the student to the Mathematics Department and approved by the Mathematics Department for this elective (7-8) _____

In addition:

2 courses from among 1701.331, 1701.332, 1701.435, 1701.436	(3) _____
_____	(3) _____

2 courses from among 0701.306, 1701.377, 1701.451, 1701.471	(3) _____
_____	(3) _____

1 course from among 1701.357, 1701.361, 1701.367, 1701.457	(3-4) _____
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1 course from among 1701.461, 1701.473,
1701.474, 1701.475, 1701.477

BACHELORS DEGREE MATHEMATICS ARTS & SCIENCE PROGRAM

(Applied Mathematics and Computing Option)

Requirements

Major — total 56-57

1701.273	Calculus I	(4)_____
1701.274	Calculus II	(4)_____
1701.261	Fundamentals of Mathematics	(3)_____
1701.365	Linear Algebra	(3)_____
1701.373	Calculus III	(4)_____
0701.235	Fundamentals of Computing	(3)_____
0701.306	Introduction to Computer Science	(3)_____
1902.221-222	General Physics	(8)_____

OR 1902.315 (Math. of Motion) and one course
selected from 0401.401, 0506.363, 2204.451, 2206.375,
2208.391, 1902.301, 1902.321 or a course submitted by
the student to the Mathematics Department and
approved by the Mathematics Department for this
elective.

(7-8)_____

In addition

3 courses from among 1701.331, 1701.332, 1701.377, 1701.435,
1701.436

_____	(3)_____
_____	(3)_____
_____	(3)_____

1 course from among 1701.361, 1701.451, 1701.471

_____	(3-4)_____
-------	------------

1 course from among 1701.461, 1701.473, 1701.474, 1701.475,
1701.477

_____	(3)_____
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2 courses from among 0701.338, 0701.339, 0701.315, 0701.437

_____	(3)_____
_____	(3)_____

BACHELORS DEGREE MATHEMATICS

(Double Major; Mathematics and Economics)

Requirements

Major — total 64

1701.261	Fundamentals of Mathematics	(3)_____
1701.273	Calculus I	(4)_____
1701.274	Calculus II	(4)_____
1701.331	Probability	(3)_____
1701.332	Mathematical Statistics	(3)_____
1701.361	Algebraic Structures	(4)_____
1701.365	Linear Algebra	(3)_____
1701.373	Calculus III	(4)_____
1701.473	Advanced Calculus I	(3)_____
1701.474	Advanced Calculus II	(3)_____
0701.235	Fundamentals of Computing	(3)_____
2204.101	Economic Principles and Problems I	(3)_____
2204.102	Economic Principles and Problems II	(3)_____
2204.309	Intermediate Price Theory	(3)_____
2204.323	Money and Banking	(3)_____
2204.335	Macroeconomic Theory	(3)_____
2204.451	Introduction to Mathematical Economics	(3)_____

Plus a minimum of two semester hours of mathematics
courses at the upper level to make a total of 36 hours in
mathematics (one of the courses 0701.306 or 0701.338 may
be counted toward these 36 hours but not both).

(2-3)_____

and six additional semester hours to be chosen from
economics courses or 1701.377.

(3)_____

(3)_____

Courses recommended are 1701.209, 1701.251, 1701.435,
1701.436, 1701.471, 0701.306, 0701.338, 2204.327, 2204.337,
and 2204.407. However 1701.209 and 1701.251 do not carry
credit towards the mathematics major.

The following courses count simultaneously toward
majors in economics and mathematics: 1701.331, 1701.332
and 1701.377. Fundamentals of Computing 1701.235, re-
quired of mathematics majors, is also acceptable for the
economics major. Thus one who takes all the mathematics
and computer science courses which count toward the
economics major need take only 18 hours of economics
courses: 2204.101-102, 2204.309, 2204.323, 2204.335 and
one other course.

Double majors who take Introduction to Mathematical
Economics 2204.451 are excused from taking eight hours
of Physics.

MATHEMATICS MINOR

Requirements

Minor — total 20

1701.261	Fundamentals of Mathematics	(3)_____
1701.273	Calculus I	(4)_____
1701.274	Calculus II	(4)_____

Plus enough mathematics courses above the 100 level
(excluding 1701.201, 1701.205, 1701.211, 1701.321, 1701.323
and 1701.423) to make a total of 20 semester hours.
1701.231 and 1701.351 are recommended. At least one
upper division source, excluding computer science courses,
must be taken; and at most one computer science course
may be counted towards the minor.

_____	(3-4)_____
_____	(3-4)_____
_____	(3-4)_____

MATHEMATICS MINOR, ELEMENTARY EDUCATION MAJOR

Requirements

Total 20

1701.204	Concepts of Mathematics for Elementary Teachers I	(3)_____
1701.261	Fundamentals of Mathematics	(3)_____
1701.273	Calculus I	(4)_____
1701.274	Calculus II	(4)_____

Plus enough mathematics courses above the 100 level
(excluding 1701.101, 1701.201, 1701.205, 1701.211, 1701.321,
1701.323, and 1701.423) to make a total of 20 semester
hours. At least one upper division course must be taken;
and at most one computer science course may be counted
toward the minor.

_____	(3)_____
_____	(3)_____

Elementary education majors who complete a mathematics
minor will be certified to teach junior high school mathe-
matics as well as elementary school. Special student teach-
ing assignments are available so that the student will get
experience in teaching mathematics in addition to the

regular elementary experience. Students in this program should be advised by the chairman of the elementary education department and by a member of the mathematics department. (See also the Education Section of the Bulletin.)

Transfer Credit Policies

If a student submits mathematics credits which are more than ten years old at the time of admission or readmission, the chairperson, after reviewing these records, may ask that some courses be repeated or that new courses be substituted.

Secondary education mathematics majors are required to take 1701.423 and at least three upper-division courses of their mathematics major program at Towson State University.

Notes for Majors and Minors

Mathematics majors in the secondary education program should do their student teaching in their senior year. Any student who wishes to deviate from this policy must obtain permission from the Department of Mathematics, prior to the beginning of the junior year. If the Secondary Education major plans to teach at the high school level, the taking of 1701.365 Linear Algebra and 1701.373 Calculus III is strongly advised. Consult the Education Department section in this Bulletin for additional course requirements for prospective Secondary School teachers.

Arts and science mathematics majors are required to take at least four upper-division courses of their mathematics major programs at Towson State University.

Arts and science mathematics majors with minors in economics may substitute 2204.451 for the physics requirement.

Mathematics majors or minors who receive a grade of D in a 100 level course prerequisite to calculus must repeat the course no later than concurrent with calculus.

Mathematics majors or minors must attain a grade of C in any 200, 300 or 400 level course used as a prerequisite. Unless otherwise noted, prerequisites must be satisfied prior to taking a course.

The program of the minor should be approved by the student's mathematics department advisor. (A minor in mathematics enables a student to meet the subject-matter requirements for a Maryland secondary school teacher's certificate to teach mathematics.)

The Bachelor of Arts Degree may be earned by adding a foreign language to the major course requirements. The language requirement can be met by completing the intermediate course of a modern foreign language or its equivalent.

Placement

Each student should consult those portions of this catalog describing his major and minor programs to see whether specific mathematics courses are required or recommended.

Students should enroll in that mathematics course for which they have the necessary prerequisites, but for which they are not over-prepared.

1701.111 and 1701.211 are courses specifically designed for students of business, economics, psychology and other social sciences.

1701.204 and 1701.205 may be used to satisfy the group II general education requirements for elementary and early childhood education majors.

For other majors, any mathematics or computer science course (with the exception of 1701.010, 1701.204, 1701.205,

1701.321 and 1701.323) may be used to satisfy the group II requirement.

Mathematics Course Numbers

A note on the numbering system: the left digit of the course number indicates the level of the content. The middle digit of the course number indicates the area of the content: zero-general; 1-service; 2-mathematics education; 3-probability and statistics, numerical analysis; 5-geometry; 6-algebra; 7-analysis; 9-readings, special topics, and seminars in mathematics.

MATHEMATICS COURSES (1701)

Service Division

1701.010 INTERMEDIATE ALGEBRA (0) Real number system, solutions of equations or inequalities in one and two variables, solutions of quadratic equations, exponents, radicals, functions, polynomial algebra, progressions and complex numbers. Prerequisite: One year of high school algebra.

Lower Division — Undergraduate

1701.101 ELEMENTS OF MATHEMATICS (3) Topics selected from systems of numeration, logic, sets, algebraic properties of real numbers, abstract algebraic structures, probability, and geometry. Prerequisite: One year of high school algebra. (Not open to mathematics majors, mathematics minors, early childhood education or elementary education students or any students who have received credit for any college level mathematics course.)

1701.111 ALGEBRA FOR APPLICATIONS (3) Intended primarily for students in business, economics, psychology and the social sciences. Included is an introduction to the real number system, inequalities, graphing of algebraic relations and basic algebraic techniques. The emphasis will be on applications of linear mathematics — linear equations, matrices, determinants, linear programming and simple games. Not open to students who have completed 1701.115 or 1701.119. Prerequisite: 2 years algebra or 1701.010. (Not open to mathematics majors or minors)

1701.115 BASIC MATHEMATICS FOR THE SCIENCES (3) Intended primarily for students in biology, natural sciences, environmental studies, health record administration, medical technology, and nursing. Functions and equations; linear, quadratic, exponential, trigonometric. Variation. Vectors. Applications of concepts and skills to the life and physical sciences are stressed. Not open to students who have credit for 1701.119. Prerequisite: 1 year plane geometry, two years algebra or 1701.010.

1701.116 MATHEMATICS II (3) Complex numbers; determinants; and analytic geometry of the line, plane, conics, and three-space surfaces. Prerequisite: 1701.115 or two years high school algebra and one-half year trigonometry.

1701.119 PRE-CALCULUS (4) The concept of function, exponential, logarithmic, circular and trigonometric functions, systems of linear equations, vectors in two space, lines, conic sections and polar coordinates. Prerequisites: 2 years algebra, 1 year plane geom., ½ year trig.

1701.204 CONCEPTS OF MATHEMATICS FOR ELEMENTARY TEACHERS I (3) Logic, sets, systems of numeration, abstract systems, elements of number theory, and the development of the number system through the real numbers. Prerequisite: One year of high school algebra

bra. {Required of all early childhood education and elementary education students. Satisfies mathematics requirement for these students. Not open to others.}

1701.205 **CONCEPTS OF MATHEMATICS FOR ELEMENTARY TEACHERS II (3)** Elements of algebra, metric and non-metric geometry, probability, statistics, measurement. Prerequisite: 1701.204. (This course or its equivalent is required of all early childhood education and elementary education students, except those who are also mathematics minors. Not open to others.)

1701.209 **MATHEMATICS OF FINANCE (3)** Compound interest and discount, amortization, sinking funds, annuities, and elements of insurance. Prerequisite: 1701.111 or 1701.115 or 1701.119 or equivalent. (No credit toward a mathematics major.)

1701.211 **CALCULUS FOR APPLICATIONS (3)** Intended primarily for students in business, economics, psychology and the social sciences. Elements of differential and integral calculus from an intuitive standpoint with emphasis on the use of calculus in the above fields. Exponential and logarithmic functions, sequences and series included. Prerequisite: 1701.111 or 1701.115 or 1701.116 or 1701.119. (Not open to mathematics majors or minors.)

1701.231 **BASIC STATISTICS I (3)** Frequency distributions with emphasis on binomial and normal distributions, percentiles, measures of central tendency and variability, sampling theory, tests of hypotheses, regression analysis, correlations, and analysis of variance or time series. Emphasis will be placed on practical applications of statistics. Prerequisite: 1701.111 or 1701.115 or equivalent. (Not open to mathematics majors.)

1701.232 **BASIC STATISTICS II (3)** Continuation of time series analysis, analysis of variance, decision theory and non-parametric techniques. Emphasis will be placed upon practical applications. Prerequisite: 1701.231 or equivalent. (No credit toward a Mathematics Major.)

1701.237 **ELEMENTARY BIOSTATISTICS (4)** Elementary statistical concepts and their application to the biological and health sciences. Descriptive statistics, estimation techniques, hypothesis testing, demography and vital statistics. Prerequisite: Two years high school algebra or 1701.010. Not open to those who have completed 1701.231 or 1701.331. Not open to Mathematics Majors.

1701.251 **GRAPH THEORY (3)** A course designed as a general education mathematics course for students with an interest in the social sciences. Also of interest to elementary education majors. Covers concepts and uses of graph theory. Applications from sociology, economics, genetics, games, etc. Prerequisite: Three years high school mathematics or any college mathematics course or consent of instructor.

1701.261 **FUNDAMENTALS OF MATHEMATICS (3)** Logic, sets and functions, cardinality, introduction to algebraic structures, and mathematical induction. Prerequisite: 1701.116 or 1701.119 or consent of instructor.

1701.273 **CALCULUS I (4)** Functions, limits and continuity; introduction to differentiation of algebraic, inverse, exponential and logarithm functions; mean value theorem; differentials; completeness of the real numbers; definite and indefinite integrals; integration of exponential and logarithm functions; applications. Prerequisite: 1701.116 or 1701.119 or calculus course in high school or adequate score on Placement Test.

1701.274 **CALCULUS II (4)** Differentiation and integration of trigonometric functions; techniques of integration and applications; indeterminate forms; sequences and series of numbers; power series; L'Hospital's Rule; improper integrals. Prerequisite: 1701.273.

Upper Division — Undergraduate and Graduate

Upper division courses not marked with an asterisk (*) may be submitted for mathematics credit to the graduate school for the master's degree in education provided they have not been submitted for undergraduate credit.

*1701.321 **TEACHING MATHEMATICS IN EARLY CHILDHOOD EDUCATION (2 or 3)** Materials of instruction and methods of presentation with emphasis on the discovery approach. Prerequisites: 1701.204 and 1701.205. (No credit toward a mathematics major or minor.)

*1701.323 **TEACHING MATHEMATICS IN ELEMENTARY SCHOOL (2 or 3)** Nature of instruction, organization of units of instruction, provisions for developing understandings, new programs and research findings, and techniques of evaluation. Required of all elementary education majors. Prerequisites: 1701.204 and 1701.205. (No credit toward a mathematics major or minor.)

1701.325 **TEACHING MATHEMATICS IN THE MIDDLE SCHOOL (3)** Philosophy, learning, teaching models, specific methods or approaches, planning for teaching and learning, and applicable contemporary curricula in the middle school mathematics curriculum. Prerequisites: 1701.261 and 1701.273 and consent of instructor. (No credit toward a mathematics major or minor.)

1701.331 **PROBABILITY (3)** Probability in sample spaces, discrete and continuous random variables, distribution theory, Tchebyshev's theorem, central limit theorem, expected values and moments. Prerequisite: 1701.274.

1701.332 **MATHEMATICAL STATISTICS (3)** Sample theory and distributions, point estimation, confidence intervals, tests of hypotheses, regression, correlation and analysis of variance. Prerequisite: 1701.331. (Offered only in the spring semester of the academic year.)

*1701.351 **ELEMENTS OF GEOMETRY (3)** Designed to give the elementary education student additional background in geometry. Involves geometric definitions, vocabulary and techniques, constructions and scale drawings, and measurement of plane and space figures. Prerequisite: 1701.205 or equivalent. (Not open to mathematics majors.)

*1701.353 **ELEMENTARY GEOMETRY FROM AN ADVANCED STANDPOINT (3)** Review of synthetic Euclidian geometry; non-Euclidian geometries; finite geometries and systems of axioms; classical theorems; elementary transformations. Prerequisites: 1701.261 and 1701.273. (Offered only in spring semester of academic year. No credit toward a mathematics major for arts and science students.)

1701.357 **COLLEGE GEOMETRY (3)** Projective geometry, both synthetic and analytic, including duality; Desargues theorem, harmonic sequences, Pappus theorem, homogeneous coordinates, conics, polarities. Prerequisites: 1701.261 and 1701.273. (Offered only in the fall semester of the academic year.)

1701.361 **ALGEBRAIC STRUCTURES (4)** Groups, rings, fields, integral domains, and polynomial rings. Prerequisite: 1701.261.

1701.365 **LINEAR ALGEBRA (3)** Matrices, vector spaces, determinants, systems of linear equations, linear transformations, characteristic vectors and values, canonical forms. Prerequisite: 1701.261.

1701.367 **THEORY OF NUMBERS (3)** Theory of prime numbers, the division algorithm, the fundamental theorem of arithmetic, polynomials, congruences, number theoretic functions. Prerequisite: 1701.261.

- 1701.373 **CALCULUS III (4)** Differential and integral calculus of functions of several variables; differential and integral calculus of vector valued functions, including the divergence and Stokes theorems. Prerequisite: 1701.274.
- 1701.377 **MATHEMATICAL MODELS (3)** Consideration of some mathematical problems in sociology, psychology, economics, management science and ecology, and developing appropriate mathematical models and techniques to solve them. Prerequisite: 1701.274 or consent of instructor.
- 1701.421 **APPLICATIONS OF MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (3)** The course examines a series of applications of mathematics that may be used to enrich the secondary mathematics curriculum. (No credit towards a mathematics major.) Prerequisite: Teaching experience in mathematics or science or consent of instructor.
- 1701.422 **SEMINAR IN MATHEMATICS EDUCATION FOR ELEMENTARY SCHOOL TEACHERS (3)** Analysis of topics, techniques, programs and materials used in the teaching and learning of mathematics in the elementary schools. (Credit may be applied to the elementary education mathematics minor program but not to other mathematics major/minor programs.) Prerequisite: 1701.321 or 1701.323.
- *1701.423 **TEACHING MATHEMATICS IN THE SECONDARY SCHOOL (3)** Objectives of mathematics instruction, examination of courses of study and textbooks, study of methods of teaching. Open only to students in the student teaching block. Prerequisites: 1701.353 and 1701.361 or consent of instructor. (This course shall be offered only in the academic year to be followed by 0803.398 Student Teaching in the Secondary Schools for the remainder of the semester. No credit toward a mathematics major for arts and science students.)
- 1701.424 **TEACHING THE METRIC SYSTEM (1)** Methods and materials for the teaching of the metric system in the elementary and junior high schools. Prerequisite: 1701.205 or equivalent, or previous teaching experience.
- 1701.425 **METHODS AND MATERIALS FOR MATH LAB INSTRUCTION (1-3)** Examination of and experiences with commercial and teacher-made materials designed for a laboratory (activity centered) approach to learning mathematics. Prerequisite: A methods course in teaching mathematics (1701.321, 323, 423) or previous teaching experience. Note: This course is intended for in-service teachers.
- 1701.427 **READINGS IN MATHEMATICS EDUCATION FOR THE ELEMENTARY SCHOOL TEACHER (1-3)** Directed study for the teacher of elementary school mathematics. Prerequisites: 1701.321 or 1701.323 and approval of instructor. (No credit toward a mathematics major.) May be taken for graduate credit only with approval of graduate program coordinator.
- 1071.429 **READINGS IN MATHEMATICS EDUCATION FOR THE SECONDARY SCHOOL TEACHER (1-3)** Directed study for the teacher of secondary school mathematics. Prerequisite: Consent of instructor. (No credit toward a mathematics major for arts and science students.)
- 1701.435 **NUMERICAL ANALYSIS I (3)** Error analysis, interpolation, numerical differentiation and integration, numerical solution of algebraic equations and of systems of algebraic equations. Prerequisites: 0701.235 and 1701.274. (Offered only in the fall semester of the academic year.)
- 1701.436 **NUMERICAL ANALYSIS II (3)** Numerical solution of differential equations. Least squares and its applications, linear programming and extensions of the concepts of 1701.435. Prerequisite: 1701.435. (Offered only in the spring semester of the academic year.)
- 1701.451 **MATH RESEARCH IN GRAPH THEORY (3)** A course designed to give an advanced mathematics major the opportunity to do independent, significant research in a field of mathematics through graph theory. Topics may include Hamiltonian and Eulerian graphs, coloring graphs, planar and non-planar graphs, connectivity problems and isomorphic graphs. Prerequisite: Consent of instructor.
- 1701.457 **DIFFERENTIAL GEOMETRY (3)** Curvatures of curves and surfaces in E_3 , geodesics, invariants, mappings and special surfaces. Prerequisite: 1701.373.
- 1701.461 **ADVANCED TOPICS IN ALGEBRA (3)** Extension of the concepts of 1701.361. Prerequisite: 1701.365. (Offered only in the fall semester of the academic year.)
- 1701.471 **DIFFERENTIAL EQUATIONS (3)** Theory and application of linear ordinary differential equations. Solutions of non-linear ordinary differential equations of the first order. Prerequisite: 1701.274.
- 1701.473 **ADVANCED CALCULUS I (3)** Dedekind cuts; Euclidian spaces; compact and connected sets, continuity, uniform continuity, limits, sequences and completeness in a metric space; Heine-Borel theorem; Weierstrass theorem; numerical sequences and series; differentiation, mean value theorem and differentiation of vector valued functions. Prerequisites: 1701.261 and 1701.274.
- 1701.474 **ADVANCED CALCULUS II (3)** Riemann-Stieltjes integral, sequences and series of functions, convergence and uniform convergence, Stone-Weierstrass theorem, and functions of several variables. Prerequisite: 1701.473. (Offered only in the spring semester of the academic year.)
- 1701.475 **COMPLEX ANALYSIS (3)** Complex number system, analytic functions, Cauchy's integral theorem and integral formula, Taylor and Laurent series, isolated singularities, Cauchy's residue theorem and conformal mappings. Prerequisite: 1701.373. (Offered only in the fall semester of the academic year.)
- 1701.477 **TOPOLOGY (3)** Basic concepts of pointset topology, separation axioms, compact and connected spaces, product and quotient spaces, convergence, continuity and homeomorphisms. Prerequisite: 1701.473. (Offered only in the spring semester of the academic year.)
- 1701.480-1701.489 **SELECTED TOPICS IN MATHEMATICS AND STATISTICS:—(1-4)** Topics will be chosen from different areas in mathematics and statistics. Content will be determined so as to complement course offerings as well as the needs and desires of the students. 1701.480 through 1701.483 may not be counted towards a mathematics major. Students may not accumulate more than 9 credit hours in Selected Topics. Prerequisites will vary from topic to topic.
- 1701.491 **READINGS IN MATHEMATICS (1-3)** Independent reading in selected areas of mathematics. Prerequisite: Consent of instructor. (Open only to seniors.)

Graduate Division

- 1701.501 **HISTORY OF MATHEMATICS (3)** An historical survey of the classical roots of contemporary mathematics with selected topics chosen from number theory, geometry, analysis and algebra. Prerequisites: 1701.274; 1701.353 or 1701.357; and 1701.361.
- 1701.521 **SEMINAR IN TEACHING ARITHMETIC (3)** Analysis of new topics, techniques, and materials in

arithmetic instruction. Students may not receive credit for both 1701.422 and 1701.521 except with special permission from the graduate program coordinator and the chairperson of the Mathematics Department. Prerequisite: 1701.321 or 1701.323.

1701.525 SEMINAR IN MATHEMATICS EDUCATION FOR SECONDARY SCHOOL TEACHERS (3) An investigation of recent curricula, methods, and materials in secondary school mathematics instruction. Prerequisite: 1701.423 or equivalent.

1701.530 STATISTICS—AN INTEGRATED APPROACH (4) Theory and practices of basic statistical analysis and inference with emphasis on analyzing and solving real problems using statistics. Descriptive statistics, introduction to probability, sampling distributions, estimation, hypothesis testing, regression, correlation, non-parametric techniques and analysis of variance, computer programming incorporated throughout. Prior knowledge of programming is not necessary. (Not open to those who have had 1701.332.) Prerequisite: 1701.274. (3 hours lecture, 2 hours lab.)

1701.531 TOPICS IN PROBABILITY (3) Review of basic probability theory, types of convergence and limit theorems, elementary stochastic processes, Markov chains, birth and death processes, Gaussian processes. Examples

and applications from engineering physical and social sciences, management and statistics. Prerequisite: 1701.331.

1701.553 TOPICS IN GEOMETRY (3) Axiomatic development of Euclidian, elliptic and hyperbolic geometries; the study of the analytic plane, the sphere and the Poincaré model, as models for these axiomatic systems. Not open to students who have had 1701.353. Prerequisites: 1701.274 and 1701.361.

1701.561 ELEMENTS OF GALOIS THEORY (3) Review of elementary group theory, polynomial rings, algebraic field extensions, Galois theory for fields of characteristic 0, solution of polynomial equations by radicals, other applications of Galois theory. Prerequisite: 1701.361.

1701.591 SEMINAR IN MATHEMATICAL APPLICATIONS (3) Survey with topics to be chosen from linear programming, theory of games, mathematical biology, econometrics, mathematical ecology, Fourier Analysis, integral equations, partial differential equations, diffusion, stochastic processes, production theory, statistical mechanics, fluid dynamics. Prerequisite: 1701.373.

1701.595 INDEPENDENT STUDY IN MATHEMATICS (1-3) Directed independent study in selected areas of graduate level mathematics. Prerequisite: Permission of instructor and graduate advisor (Math Dept.).



Computer Science

(A program within the Mathematics Department)

Associate Professor: GRAVES

Assistant Professors: LIDTKE, HAAR, SCHMITT

Students interested in computer oriented careers in teaching research, business, engineering, or applied mathematics should consider a major or minor in this program. Staff members will aid students in designing a program to meet their needs.

General Studies Major Area of Concentration: Computer Science

The program requires 45 hours of upper division work. 21 hours are in Computer Science. 9 hours are in Mathematics or Mathematics and Physics. See page 51 for required courses.

Computer Science Minor

All computer science minors are required to take 18 semester hours in Computer Science, of which 12 hours must be courses on the 300 and 400 level. Numerical Analysis (1701.435 and 1701.436) may be counted towards a computer science minor.

COMPUTER SCIENCE COURSES (0701)

Lower Division — Undergraduate

0701.101 COMPUTERS AND COMPUTING (3) A survey of Computer Science for non-majors including a history of computing, an overview of computer organization and programming, and the social impact of computers. Applications such as business data processing, information management, computer aided instruction, process control, and simulation will be discussed. Projects will be chosen from various application areas. Not open to those who completed 0701.211.

0701.212 INTRODUCTION TO BUSINESS PROGRAMMING (3) A study of computer programming for business applications using a language such as COBOL. Students will design, implement, test and document programs in application areas such as payroll, accounting, inventory, and file maintenance. Not open to those who completed Cobol Programming.

0701.235 FUNDAMENTALS OF COMPUTING (3) A first course in computing to provide the student with the requisite knowledge and experience to use computers effectively in the solution of numeric and non-numeric problems. Two lecture hours and two laboratory hours. Prerequisite: Two years of high school algebra or equivalent.

0701.236 STRUCTURED PROGRAMMING (3) A course in problem-solving and the design of computer programs to problem-solving. The various aspects of a specific language will be studied. Students will solve a wide variety of problems and implement them on the computer. The problems will employ arrays, subroutines and functions, character manipulation, and input/output operations. Not open to those who completed Introduction to Computer Science I (0701.337) or 0701.306. Prerequisite: 0701.235.

Upper Division — Undergraduate and Graduate

Upper division courses not marked with an asterisk (*) may be submitted for computer science credit to the graduate

school for the masters degree in education provided they have not been submitted for undergraduate credit.

0701.306 STRUCTURED PROGRAMMING FOR THE SCIENCES (3) A course in problem solving methods and the design of computer programs for mathematics and the sciences with an emphasis on programming style and a systematic approach to problem solving. Students will solve a wide variety of problems using a scientific programming language. Not open to those who completed 0701.236 or Introduction to Computer Science I (0701.337). Prerequisite: 0701.235 and 1701.273* (* may be taken concurrently).

0701.315 SURVEY OF PROGRAMMING LANGUAGES (3) Survey of the significant features of existing programming languages with emphasis on understanding the concepts abstracted from those languages. The course covers: algorithmic languages such as ALGOL, problem oriented languages such as SNOBOL, theoretically interesting languages such as LISP, and general purpose languages such as FORTRAN and PL/1. Prerequisites: 0701.336.

0701.317 DISCRETE STRUCTURES (3) This course deals with the basic mathematical structures used in computer science. It covers boolean algebra, graph theory, semigroups, grammar and automata, showing how these structures apply to heuristic programming, networks and computer construction. Prerequisites: 1701.261 and 0701.336.

0701.335 ADVANCED BUSINESS PROGRAMMING (3) A course in advanced programming concepts for business applications. Topics to be covered include the report writer feature, table handling, sorting, direct access files, program segmentation, and job control language. Students will work on several case studies and programming projects. Prerequisites: 0701.212 or 0701.236.

0701.336 DATA STRUCTURES AND SORTING TECHNIQUES (3) An introduction to data structures such as lists, trees and graphs and their implementation. Algorithms for efficient searching, sorting, insertion, and deletion will be investigated. The implications of storage media characteristics and on file organization and manipulation will be studied. Not open to those who completed 0701.237. Prerequisite: 0701.236 or 0701.306 or 0701.335.

0701.338 COMPUTER ORGANIZATION AND PROGRAMMING (3) Introduces the concepts of hardware and software systems. Topics include computer architecture and machine language, assembly and macro-languages, program segmentation, and linkage, assembler and loader construction, and operating systems organization. Not open to those who completed Introduction to Computer Science II. Prerequisite: 0701.336.

0701.339 OPERATING SYSTEMS PRINCIPLES (3) An overview of the principles of operating systems. Topics include multiple processes, process synchronization and intercommunication, resource allocation, memory management, processor scheduling, and I/O device management. Not open to those who completed Programming Systems. Prerequisite: 0701.338.

0701.397 PRACTICUM IN COMPUTER SCIENCE (3) This course is designed to give Computer Science students the opportunity to be involved in a computing facility. Each student will be assigned to a specific facility associated with a local business or industry and will be supervised by the appropriate supervisor of the computing facility and by the faculty member in charge of the course. Prerequisites: 6 hours of upper division Computer Science courses and the consent of the instructor.

0701.401 COMPUTERS IN SECONDARY EDUCATION

(3) This course is designed for teachers in secondary schools to acquaint them with the uses of computers at the secondary level and to present methods and materials for use of the computer in the classroom. Prerequisite: Knowledge of at least one high level programming language and teaching experience or completion of student teaching or consent of instructor.

0701.411 SYSTEMS AND DESIGN (3) A course designed to guide the student through the stages of the evolution of data processing systems, including analyses of present information flow, system specifications, equipment selection, and implementation of the system to provide an understanding of the skill and knowledge needed for the effective use of data processing equipment in meeting information needs. Prerequisite: 0701.335 and consent of instructor.

0701.415 IMPLEMENTATION OF PROGRAMMING LANGUAGES (3) A study of internal organization and data structures used by compilers in lexical analysis, parsing, and code generation; run-time data structures; global properties of programming languages including scope of declarations, groupings of statements, binding times, control structures, and memory management; definitions of programming languages including the specification of syntax and semantics, and case studies in several

systems including both compiled and interpreted languages. Prerequisites: 0701.338 and 0701.315.

0701.417 INTRODUCTION TO THE THEORY OF COMPUTING (3) A general introduction to the theory of computation, including finite automata, computability, formal languages and their relation to automata, algorithms, and algorithmic complexity. The major emphasis will be on developing formal descriptions of computers and computational processes, and practical implications of theoretical results. Prerequisites: 0701.317; or 0701.361 and 0701.235 or equivalent.

0701.431 SELECTED TOPICS IN COMPUTER SCIENCE (1-3) Independent studies in selected areas of computer science. This course may be taken more than once, but one may not accumulate more than four credits. Prerequisite: Consent of instructor and nine hours of computer science.

0701.437 FILE AND DATA STRUCTURES (3) A study of the relations among elements of data involved in problems, the structure of storage media and machines, and the methods used in representing structural data. Storage systems and structures, symbol tables, searching and sorting techniques are discussed. Formal specification of data structures and generalized data management systems are investigated. Prerequisite: 0701.338.



Modern Languages

Professors: CACOSSA, GIRO (Choirperson), MAGILL
 Associate Professors: EVANS, McDERMOTT, POIRIER
 Assistant Professors: HAUPT, LEVNO, LEETCH

The purposes of the Modern Languages Department are to offer a major or minor in French, German and Spanish, to offer the required courses for the teaching of modern foreign languages and to offer language electives to all students of the college who wish to acquire a reading or conversational ability in one or more of these languages: Russian, Chinese, Portuguese, Hebrew, Japanese and Italian. Expansion of these non-major languages will be made in response to expressed student interest.

Departmental Office

Building — LI
 Room — 319C
 Phone — 321-2878

BACHELOR OF ARTS DEGREE — MODERN LANGUAGES

The following are the required courses for this academic department and the total number of credits needed by a student to fulfill this major. Students are reminded that they must also meet the General Education Requirements. If a student is a teacher education major, students should elect Advanced Grammar:

Requirements

Major — total — 30

Program in French

1102.301	French Conversation & Comp. 1	(3) _____
1102.302	French Conversation & Comp. II	(3) _____
1102.321	Survey of French Literature I	(3) _____
1102.322	Survey of French Literature II	(3) _____

18 hours of electives from within the department's offerings in the target language, including nine hours of literature courses at the 400 level:

_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____

Program in German

1103.301	German Conversation & Comp. I	(3) _____
1103.302	German Conversation & Comp. II	(3) _____
1103.321	Survey of German Literature I	(3) _____
1103.322	Survey of German Literature II	(3) _____

18 hours of electives from within the department's offerings in the target language, including nine hours of literature courses at the 400 level:

_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____

Program in Spanish

1105.301	Span. Conversation & Comp. I	(3) _____
1105.302	Span. Conversation & Comp. II	(3) _____

1105.311	Culture and Civilization I	(3) _____
1105.312	Culture and Civilization II	(3) _____
1105.321	Survey of Spanish Lit. I	(3) _____
1105.322	Survey of Spanish Lit. II	(3) _____

12 hours of electives from within the department's offerings in the target language, including nine hours of literature courses at the 400 level:

_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____

The requirement of six hours of culture and civilization for Spanish majors is strongly felt by the Spanish faculty to be a necessity in their program, primarily because of the great diversity of Spanish-speaking countries in Europe, South America and Central America, and the importance of a knowledge of this diversity for all who teach or otherwise use Spanish.

_____	(3) _____
_____	(3) _____
_____	(3) _____

See this catalogue for further details.

Language placement information can be found on page 17 of this booklet.

Language Minor

The minor officially does not exist at Towson State University. The term "minor" refers to the Maryland State Department of Education teaching certificate requirement. These are either (a) 24 hours of college credit in the particular language, or (b) 18 hours if two or more years were absolved in a secondary school after the ninth grade. In addition, Education 0803.353 is required of teacher candidates.

Policies Concerning Language

The second semester of an elementary language course must be completed successfully before credit is granted for the first semester's work.

The completion of the intermediate level, or its equivalent, is required of all candidates for the Bachelor of Arts degree. This requirement may be met by (a) completing two or more years of the language in high school plus the intermediate level course in college, (b) completing the elementary and intermediate level courses in the language in college, (c) successfully completing an equivalence examination administered once a year, during November, by the Department of Modern Languages at Towson State University, (d) successfully completing one semester of any course beyond the intermediate level or (e) successfully completing a credit for experience examination at the 300 level.

Placement in Languages

The Modern Languages Department's policy regarding placement of entering students with high school language study is:

1. One year of high school language study, the student may register for 101 or 102.
2. Two years of high school language study, the student may register for 102 or 201.
3. Three years of high school language study, the student may register for 201 or 202.

4. Four years of high school language study, the student may register for 202 or any 300 level course.
5. Five years of high school language study, the student may register for any 300 level course.

Students will normally want to register for the higher level course for which they are qualified. Deviations from this plan must be approved by the Department of Modern Languages.

CERTIFICATE OF PROFICIENCY IN A MODERN FOREIGN LANGUAGE

The Department of Modern Languages has designed a program of studies that offers the non-language major a Certificate of Proficiency in French, German or Spanish upon satisfactory completion of prescribed requirements.

A certificate of proficiency is an important document for those individuals who are planning or practicing careers which require reasonable oral and written competency in a given modern language. In the job market, national and international, we are aware that a large number of opportunities await persons whose knowledge of one or more modern foreign languages has been well established through intensive college study. The Certificate of Proficiency is quite advantageous for aspiring professionals in the fields of communications, public services, business and finance, agriculture, transportation, health services, education, energy, natural resources, journalism, law, foreign service, governmental service, air traffic management, import/export purchasing and selling, etc.

In order to receive the Certificate of Proficiency, the student must pass a comprehensive oral and written examination after having completed, with acceptable grades, recommended courses. The student who is prepared to begin at the advanced level will need to complete twelve (12) credits of study whereas the student who begins at the elementary level will have to earn twenty-eight (28) credits in the particular language.

The following courses are recommended in the program:

Certificate of Proficiency in French

- | | |
|--------------|---|
| 1102.101-102 | French Elements (4,4 credits) |
| 1102.201-202 | French Intermediate (4,4 credits) |
| 1102.301-302 | French Composition and Conversation (3,3 credits) |
| 1102.311 | French Culture and Civilization (3 credits) |
| 1102.391 | Advanced French Grammar (3 credits) |
| 1102.470 | Special Topics in French (3 credits) |

Specialized courses will be planned and introduced in accordance with student needs.

Certificate of Proficiency in German

- | | |
|--------------|---|
| 1103.101-102 | German Elements (4,4 credits) |
| 1103.201-202 | German Intermediate (4,4 credits) |
| 1103.301-302 | German Composition and Conversation (3,3 credits) |
| 1103.311 | German Culture and Civilization (3 credits) |
| 1103.391 | Advanced German Grammar (3 credits) |
| 1103.470 | Special Topics in German (3 credits) |

Specialized courses will be planned and introduced in accordance with student needs.

Certificate of Proficiency in Spanish

- | | |
|--------------|--|
| 1105.101-102 | Spanish Elements (4,4 credits) |
| 1105.201-202 | Spanish Intermediate (4,4 credits) |
| 1105.301-302 | Spanish Composition and Conversation (3,3 credits) |

- | | |
|----------|---|
| 1105.311 | Culture and Civilization of the Spanish Speaking People (Spain) (3 credits) |
| 1105.312 | Culture and Civilization of the Spanish Speaking People (Latin America) (3 credits) |
| 1105.391 | Advanced Spanish Grammar (3 credits) |
| 1105.470 | Special Topics in Spanish (3 credits) |

Special courses will be planned and introduced in accordance with student needs.

The certificate of proficiency may be earned by a degree candidate at Towson State University as well as by an individual whose sole interest in attending the University is for the purpose of obtaining the certificate.

MODERN LANGUAGE COURSES

1102.475, 1103.475, 1105.475 (32.475, 36.475, 82.475) **USE OF AUDIO-VISUAL TECHNIQUES IN MODERN LANGUAGE TEACHING** (3, 3, 3) Principles of design and components of communication will be presented. Demonstrations on basic materials production will be given. Students will be required to make materials and show how their materials can be used in foreign language instruction. Prerequisites: Previous teaching experience or consent of the department chairperson.

1102.483, 1103.483, 1105.483 (32.483, 36.483, 82.483) **SPECIAL TOPICS IN FOREIGN LANGUAGE TEACHING** (3, 3, 3) Studies in the area of language teaching techniques with changing emphasis from year to year. Prerequisite: Consent of the department chairperson.

CHINESE COURSES (1107)

Lower Division — Undergraduate Only

1107.101-102 **ELEMENTARY MODERN CHINESE I, II** (3, 3) An introduction to standard modern Chinese (Mandarin). Emphasis is on reading and writing of Chinese, Pin Yin, the phonetic system of pronouncing Chinese words is introduced. Text, sound tape and vocabulary cards.

FRENCH COURSES (1102)

Lower Division — Undergraduate

1102.101-102 **FRENCH ELEMENTS I, II** (3-4, 3-4) A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation; introduction to French culture.

1102.201-202 **FRENCH INTERMEDIATE I, II** (3-4, 3-4) Review of grammar; conversation and prose composition; translation of texts of cultural value; outside readings. Conducted in French. Prerequisite: 1102.101-102 or equivalent.

1102.221 **STUDIES IN FRENCH LITERATURE IN TRANSLATION** (3) An intensive study of English translations of a limited selection of works chosen from the acknowledged masterpieces of French literature, presented in chronological order (not open to French majors).

Upper Division — Undergraduate Only

1102.301-302 **FRENCH COMPOSITION AND CONVERSATION I, II** (3, 3) Intensive exercises in French composition and conversation beyond the intermediate level. Conducted in French. Prerequisites: 1102.201-202 or equivalent.

1102.303 **FRENCH STYLISTICS** (3) Development of writing skills with stress on language structure and im-

portant aspects of styles. Conducted in French. Prerequisite: 1102.301-302 or equivalent.

1102.305 CONVERSATION IN FRENCH (3) Open to native American speakers of English who have been exposed to basic study of French but need to develop fluency and improve oral command for "live" situations in a French context. Topics of contemporary interest; pronunciation correction; extensive use of mass-media and audio-visual materials; language laboratory and dial-access facilities to reinforce classroom instruction. Prerequisite: At least three years of high school French, or two years of college French, or equivalent, or consent of instructor.

1102.311 FRENCH CULTURE AND CIVILIZATION (3) A brief survey of the history, geography, and institutions of France. Conducted in French. Prerequisite: 1102.301-302 or equivalent.

1102.321, 322 SURVEY OF FRENCH LITERATURE I, II (3, 3) French literature from Chanson de Roland to the present. Conducted in French. Prerequisite: 1102.201-202 or equivalent.

1102.331 FRENCH FOR BUSINESS (3) Reading, speaking and writing practice for simple business transactions in French, as an introduction to specific training in functional areas of foreign trade. Basic business correspondence and dictation, practical situation dialogues, translation and analysis of economic and financial news. (Team taught with cooperation of Business Administration Department.) Prerequisite: 1102.201-202, its equivalent, or consent of instructors.

1102.391 ADVANCED FRENCH GRAMMAR (3) French syntax, idiomatic construction, word formation. Conversation, oral and written drill. Conducted in French. Prerequisite: 1102.301, 302.

Upper Division — Undergraduate and Graduate

1102.401 FRENCH PHONETICS (3) The pronunciation of contemporary French; drill in pronunciation. Prerequisite: 1102.201, 202.

1102.402 APPLIED FRENCH LINGUISTICS (3) Phonetics, morphology, syntax, points of interference. Linguistic study relating to methodology for French teachers. Conducted in French. Prerequisites: 1102.301-302 or equivalent.

1102.421 FRENCH LITERATURE OF THE SEVENTEENTH CENTURY I (3) Principal works of the major writers in poetry, drama, philosophy, criticism, and the novel, to about 1660. Conducted in French. Prerequisite: 1102.321, 322 or equivalent.

1102.422 FRENCH LITERATURE OF THE SEVENTEENTH CENTURY II (3) Continuation of 1102.421 from 1660 to 1700. Conducted in French. Prerequisite: 1102.321, 322 or equivalent.

1102.425 FRENCH LITERATURE OF THE EIGHTEENTH CENTURY (3) Principal works of the major writers with the concurrent literary and philosophical trends. Conducted in French. Prerequisite: 1102.321, 322 or equivalent.

1102.431 FRENCH LITERATURE OF THE NINETEENTH CENTURY I (3) The rise, flowering, and decline of Romanticism, with the contemporary writers outside the movement. Conducted in French. Prerequisite: 1102.321, 322 or equivalent.

1102.432 FRENCH LITERATURE OF THE NINETEENTH CENTURY II (3) The major literary figures and

doctrines of the latter part of the nineteenth century. Conducted in French. Prerequisite: 1102.321, 322 or equivalent.

1102.437 WOMEN WRITERS IN TRANSLATION (3) A study of the writings and the image of women in languages other than English. Changing emphasis from semester to semester: focus on a theme, a period or a geographical area. Prerequisites: Three English courses, including 1501.102 or 1501.104, or permission of the instructor. Credit cannot be applied towards a major in a language.

1102.441 FRENCH LITERATURE OF THE TWENTIETH CENTURY I (3) From Gide, Proust, Valéry, Péguy, and Claudel to the Second World War. Conducted in French. Prerequisite: 1102.321, 322 or equivalent.

1102.442 FRENCH LITERATURE OF THE TWENTIETH CENTURY II (3) Sartre, Camus, Anouilh, and other present-day writers. Conducted in French. Prerequisite: 1102.321, 322 or equivalent.

1102.451-452 FRENCH POETRY I, II (3, 3) The development of French poetry from the Middle Ages to the present day. Conducted in French. Prerequisite: 1102.321, 322.

1102.461-462 FRENCH DRAMA I, II (3, 3) The development of French drama from the Middle Ages to the present day. Conducted in French. Prerequisite: 1102.321, 322.

1102.470 SPECIAL TOPICS IN FRENCH (3) Discussion of a central topic with changing emphasis from year to year. Prerequisites: 1102.321-322 or equivalent.

1102.471 THE FRENCH NOVEL I (3) From the 17th century to Flaubert (theory of the novel as a genre, the novel from Préciosité to "La Princesse de Clèves" in the 17th century, the picaresque and philosophical novel in the 18th century, Balzac and Stendhal in the 19th century). Conducted in French. Prerequisite: 1102.321, 322 or equivalent.

1102.472 THE FRENCH NOVEL II (3) From Flaubert to the "Nouveau Roman" (evolution of the novel from Flaubert to Proust, Gide, Malraux, Giono and the theories of the "Nouveau Roman," Robbe-Grillet and Butor). Conducted in French. Prerequisite: 1102.321, 322 or equivalent.

1102.487 TRAVEL AND STUDY ABROAD (4-15) Study at a French University. Students will live and take courses at the University of Nantes, France. Dates: February through June [1 semester]. Prerequisites: Three years of college French or equivalent. Consent of department chairperson.

1102.491 DIRECTED READINGS IN FRENCH LITERATURE (3) Reserved for superior students under the guidance of a departmental advisor. Conducted in French. Prerequisites: at least three hours of literature study at the 400 level, consent of department chairperson.

1102.492 DIRECTED READINGS IN FRENCH (3) Similar to 1102.491 with concentration on a different subject matter. Conducted in French. Prerequisites: at least three hours of literature study at the 400 level, consent of department chairperson.

Graduate Division

1102.505 ETUDES ET TRAVAUX STYLISTIQUES (3) Practice in writing and comparison of style of various writers. Intensive and detailed explications de texte. Discussion, oral and written reports. Conducted in French. Prerequisite: Undergraduate degree in French.

1102.533-534 SEMINAR ON FRENCH CLASSICISM II, II (3, 3) The origins and underlying ideas of classicism. Study of main classic writers, with shifting emphasis from year to year. Conducted in French. Prerequisite: Undergraduate degree in French.

1102.538 SEMINAR IN 18TH CENTURY FRENCH LITERATURE (3) The literature of the French Enlightenment, concentrating on one or two major authors, with shifting emphasis from year to year. Conducted in French. Prerequisite: Undergraduate degree in French.

1102.539 THE ROMANTIC ERA IN FRANCE (3) Sources and theories of French Romanticism. Works of major French romantic writers, with shifting emphasis from year to year. Conducted in French. Prerequisite: Undergraduate degree in French.

1102.543-544 PERSPECTIVES DE CRITIQUE LITTÉRAIRE EN FRANCE (3, 3) A history of French literary criticism leading to the study of the various techniques and objectives of all literary criticism and analysis eventuating in the application of these techniques by the student himself to selected works of French literature. Conducted in French. Prerequisite: Undergraduate degree in French.

1102.571 SPECIAL TOPICS IN FRENCH LANGUAGE, LITERATURE AND CIVILIZATION (3) Grand Mouvements Littéraires en France du IX^e et XX^e Siècles. Conducted in French. Prerequisite: Undergraduate degree in French.

GERMAN COURSES (1103)

Lower Division — Undergraduate

1103.101-102 GERMAN ELEMENTS I, II (3-4, 3-4) A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation.

1103.201-202 GERMAN INTERMEDIATE I, II (3-4, 3-4) Review of grammar; conversation and prose composition; reading of texts of cultural value. Conducted in German. Prerequisite: 1103.101-102 or equivalent.

1103.221 STUDIES IN GERMAN LITERATURE IN TRANSLATION (3) An intensive study of English translations of a number of acknowledged masterpieces of German literature. Not open to German majors.

Upper Division — Undergraduate Only

1103.301-302 COMPOSITION AND CONVERSATION I, II (3, 3) Composition and conversation beyond intermediate level. Conducted in German. Prerequisite: 1103.201-202 or equivalent.

1103.303 (36.303) GERMAN STYLISTICS (3) Development of writing skills with stress on language structure and important aspects of style. Prerequisite: 1103.301-302 or the equivalent.

1103.311 CULTURE AND CIVILIZATION (3) A brief survey of the history, geography, and institutions of Germany. Conducted in German. Prerequisite: 1103.201-202 or equivalent.

1103.321-322 SURVEY OF GERMAN LITERATURE I, II (3, 3) German literature from the Hildebrandslied to the present. Conducted in German. Prerequisite: 1103.201-202 or equivalent.

1103.391 ADVANCED GERMAN GRAMMAR (3) German syntax, idiomatic construction, word formation, original composition. Conversation and oral drill. Conducted in German. Prerequisite: 1103.301-302.

Upper Division — Undergraduate and Graduate

1103.401 GERMAN PHONETICS (3) The pronunciation of contemporary German, drill in pronunciation. Prerequisite: 1103.201-202.

1103.427-428 CLASSICISM I, II (3) First semester: the beginnings of German classicism: Goethe, Schiller, Lessing; second semester: the later works of Goethe and Schiller. Conducted in German. Prerequisite: 1103.321-322 or equivalent.

1103.431 ROMANTICISM (3) German literature during the Romantic era (1790-1830). Hölderlin, Novalis, Tieck, Brentano, Grillparzer. Conducted in German. Prerequisite: 1103.321-322 or equivalent.

1103.441 MODERN GERMAN LITERATURE (3) The modern masters: Kafka, Mann, Hesse, Rilke, Brecht. Conducted in German. Prerequisite: 1103.321-322 or equivalent.

1103.442 GERMAN LITERATURE SINCE 1945 (3) Themes and movements since World War II. Poetry: Eich, Enzenberger, Celan, Bachmann; prose fiction: Böll, Grass; drama: Brochert, Dürrenmatt, Frisch. Conducted in German. Prerequisite: 1103.321-322 or equivalent.

1103.451 STUDIES IN THE GERMAN LYRIC (3) Focus on a particular period, movement or author, to be determined after consultation with majors. Conducted in German. Prerequisite: 1103.321-322 or equivalent.

1103.461 GERMAN DRAMA OF THE 19TH AND 20TH CENTURIES (3) The development of modern German drama in the successive literary movements, beginning with Kleist. Conducted in German. Prerequisite: 1103.321-322 or equivalent.

1103.465 GOETHE'S FAUST (3) A study of the background, themes and structures of this masterpiece. Conducted in German. Prerequisite: 1103.321-322 or equivalent.

1103.470 SPECIAL TOPICS IN GERMAN (3) Discussion of a central topic with changing emphasis from year to year. Conducted in German. Prerequisite: 1103.321-322 or equivalent.

1103.481 THE GERMAN NOVELLE (3) The theory and development of the Novelle in German literature from Goethe to the present. Conducted in German. Prerequisite: 1103.321-322 or equivalent.

1103.491-492 DIRECTED READINGS IN GERMAN (3, 3) Reserved for superior students under the guidance of a departmental advisor. Content related to student's previous program. Prerequisites: at least three hours of study at the 400 level, consent of department chairperson.

CREEK COURSES (1110)

1110.101-102 ELEMENTS OF MODERN GREEK I, II (3, 3) A thorough foundation in grammar; drills in pronunciation; elementary conversation and composition; introduction to Greek culture.

HEBREW COURSES (1111)

Lower Division — Undergraduate

1111.101-102 ELEMENTS OF HEBREW I, II (3, 3) An introduction to Hebrew. Speaking, reading, and writing, the development of conversational ability, free composition, and translation from English into Hebrew. Credit given on completion of both semesters.

1111.201-202 HEBREW INTERMEDIATE I, II (3, 3) A continued review of grammatical structure with emphasis on conversational and reading fluency. Vocabulary

building, composition and reading and discussion of selected outside readings. Prerequisites: 1111.101-102.

ITALIAN COURSES (1104)

Lower Division — Undergraduate

1104.101-102 ITALIAN ELEMENTS I, II (3-4, 3-4)
A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation.

1104.201-202 ITALIAN INTERMEDIATE I, II (3-4, 3-4)
Review of grammar, conversation and prose composition; translation of texts of cultural value; outside readings. Prerequisite: 1104.101-102 or equivalent.

Upper Division — Undergraduate Only

1104.301-302 ITALIAN COMPOSITION AND CONVERSATION I, II (3, 3) Composition and conversation beyond the intermediate level. Conducted in Italian. Prerequisite: 1104.201-202.

1104.321-322 SURVEY OF ITALIAN LITERATURE I, II (3, 3) A thorough examination of Italian literature from the thirteenth century to the present. Conducted in Italian. Prerequisite: 1104.201-202.

JAPANESE COURSES (1108)

Lower Division — Undergraduate

1108.101-102 JAPANESE ELEMENTS I, II (3, 3) Development of elementary vocabulary and sentences, forms of written language, conversation, composition and translation. This course will be given using the techniques of programmed instruction.

1108.201-202 JAPANESE INTERMEDIATE III, IV (3, 3) Review of elementary Japanese; intermediate Kanji; conversation and prose composition; translations; outside readings commensurate with the ability of individual student. This course will be given using the techniques of programmed instruction. Prerequisite: 1108.101-102.

PORTUGUESE COURSES (1199)

Lower Division — Undergraduate

1199.101-102 (4901.107-102) PORTUGUESE ELEMENTS I, II (4, 4) A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation.

1199.201-202 (4901.207-208) PORTUGUESE INTERMEDIATE I, II (4, 3-4) Review of grammar, conversation and prose composition; translation of texts of cultural value; outside readings. Prerequisite: 1199.101-102 or equivalent. Conducted in Spanish. Prerequisite: 1105.101-102 or equivalent.

RUSSIAN COURSES (1106)

Lower Division — Undergraduate

1106.101-102 RUSSIAN ELEMENTS I, II (3, 3) A thorough foundation in grammar; drills in pronunciation, elementary conversation; composition and translation.

1106.201-202 RUSSIAN INTERMEDIATE I, II (3, 3) Review of grammar; conversation and prose composition; translation of texts of cultural value; outside readings. Prerequisite: 1106.101-102 or equivalent.

SPANISH COURSES (1105)

Lower Division — Undergraduate

1105.101-102 SPANISH ELEMENTS I, II (3-4, 3-4)
Thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation.

1105.201-202 SPANISH INTERMEDIATE I, II (3-4, 3-4) Review of grammar; conversation and prose composition; reading of texts of cultural value; outside readings commensurate with the ability of the individual student. Conducted in Spanish. Prerequisite: 1105.101-102 or equivalent.

1105.221 STUDIES IN SPANISH LITERATURE IN TRANSLATION (3) An intensive study of English translations of a limited selection of works chosen from the acknowledged masterpieces of Spanish literature, presented in chronological order (not open to Spanish majors).

Upper Division — Undergraduate Only

1105.301-302 COMPOSITION AND CONVERSATION I, II (3, 3) Composition and conversation beyond intermediate level. Conducted in Spanish. Prerequisite: 1105.201-202 or equivalent.

1105.311 CULTURE AND CIVILIZATION OF THE SPANISH-SPEAKING PEOPLES I (3) Value-system and way of life as embodied in the language, history, arts and customs of Spain. Conducted in Spanish. Prerequisite: 1105.301-302 or equivalent.

1105.312 CULTURE AND CIVILIZATION OF THE SPANISH-SPEAKING PEOPLES II (3) Value-system and way of life as embodied in the language, history, arts and customs of Ibero-America. Prerequisite: 1105.301-302 or equivalent.

1105.321-322 SURVEY OF SPANISH LITERATURE I, II (3, 3) Spanish and Spanish-American literature, with collateral readings. Conducted in Spanish. Prerequisite: 1105.201-202 or equivalent.

1105.391 ADVANCED SPANISH GRAMMAR (3) Spanish syntax, idiomatic construction, word formation, original composition. Conservation and oral drill. Conducted in Spanish. Prerequisite: 1105.301, 302.

Upper Division — Undergraduate and Graduate

1105.401 SPANISH PHONETICS (3) The pronunciation of contemporary Spanish, drill in pronunciation. Prerequisite: 1105.201-202.

1105.402 SPANISH LINGUISTICS (3) The linguistic structure of the Spanish language with an introduction to transformational grammar. Conducted in Spanish. Prerequisite: 1105.301-302 or equivalent.

1105.417-418 THE GOLDEN AGE IN SPANISH LITERATURE I, II (3, 3) Principal attention to Cervantes, Tirso de Molina, Lope de Vega, and Ruiz de Alarcón; Góngora and his role. Conducted in Spanish. Prerequisite: 1105.321-322 or equivalent.

1105.431 NINETEENTH CENTURY SPANISH LITERATURE (3) The main literary movements of the century: neo-classicism, romanticism, realism, naturalism, and special emphasis on "costumbrismo." Conducted in Spanish. Prerequisite: 1105.321-322 or equivalent.

1105.435 NINETEENTH CENTURY SPANISH-AMERICAN LITERATURE I (3) Principal works of the major writers to about 1860. Conducted in Spanish. Prerequisite: 1105.321-322 or equivalent.

- 1105.436 NINETEENTH CENTURY SPANISH-AMERICAN LITERATURE II (3) Principal works of the major writers from 1860-1900. Conducted in Spanish. Prerequisite: 1105.321-322 or equivalent.
- 1105.441 TWENTIETH CENTURY SPANISH LITERATURE I (3) Special attention to the literary movement called "The Generation of '98". Conducted in Spanish. Prerequisite: 1105.321-322 or equivalent.
- 1105.442 TWENTIETH CENTURY SPANISH LITERATURE II (3) The writers of the last thirty years. Conducted in Spanish. Prerequisite: 1105.321-322 or equivalent.
- 1105.443 TWENTIETH CENTURY SPANISH-AMERICAN LITERATURE I (3) Modernism to the Contemporary Period. Conducted in Spanish. Prerequisite: 1105.321-322 or equivalent.
- 1105.444 TWENTIETH CENTURY SPANISH-AMERICAN LITERATURE II (3) The Contemporary Period. Conducted in Spanish. Prerequisite: 1105.321-322 or equivalent.
- 1105.451 SPANISH POETRY I (3) Special emphasis on Gustavo Adolfo Bécquer, Rubén Darío, Antonio Machado. Conducted in Spanish. Prerequisite: 1105.321-322 or equivalent.
- 1105.452 SPANISH POETRY II (3) Emphasis on the poets of the generation of 1927: Pablo Neruda, and Vicente Aleixandre. Conducted in Spanish. Prerequisite: 1105.321-322 or equivalent.
- 1105.461 SPANISH DRAMA I (3) Nineteenth and early twentieth century. Conducted in Spanish. Prerequisite: 1105.321-322 or equivalent.
- 1105.462 SPANISH DRAMA II (3) Contemporary playwrights such as Casona, Usigli, and Vallejo. Conducted in Spanish. Prerequisite: 1105.321-322 or equivalent.
- 1105.470 SPECIAL TOPICS IN SPANISH (3) Discussion of a central topic with changing emphasis from year to year. Prerequisite: 1105.321-322 or the equivalent.
- 1105.471 SPANISH NOVEL I (3) Emphasis will be given to Benito Pérez Galdós and Pío Baroja. Conducted in Spanish. Prerequisite: 1105.321-322 or equivalent.
- 1105.472 SPANISH NOVEL II (3) Emphasis on contemporary writers including: Camilo José Cela, Miguel Ángel Asturias, Ramón Sender, Juan Coytisoló. Conducted in Spanish. Prerequisite: 1105.321-322 or equivalent.
- 1105.481 SPANISH SHORT STORY (3) The short story in Spain and Spanish America with emphasis on twentieth century authors. Conducted in Spanish. Prerequisite: 1105.321-322 or equivalent.
- 1105.491 DIRECTED READINGS IN SPANISH LITERATURE (3) Reserved for superior students under the guidance of a departmental advisor. Conducted in Spanish. Prerequisites: At least three hours of literature study at the 400 level, consent of department chairperson.
- 1105.492 DIRECTED READINGS IN SPANISH (3) Similar to Span 491 with concentration on a different subject matter. Conducted in Spanish. Prerequisites: At least three hours of literature study at the 400 level, consent of department chairperson.

Graduate Division

- 1105.505 SPANISH STYLISTICS (3) Intensive and detailed analysis of selected texts. Discussion and oral reports. Required weekly compositions. Prerequisite: Undergraduate degree in Spanish.
- 1105.536 POETRY & DRAMA OF THE SPANISH GOLDEN AGE (3) Study of major writers of the Siglo de Oro, with shifting emphasis from year to year. Conducted in Spanish. Prerequisite: B.A. degree in Spanish.
- 1105.553 MIGUEL DE CERVANTES (3) *Don Quijote de la Mancha* and the *Novelas Ejemplares*, reading and detailed analysis. Prerequisite: Undergraduate degree in Spanish.
- 1105.570 SPECIAL TOPICS IN SPANISH (3) Discussion of a central topic with changing emphasis from year to year. Prerequisite: Undergraduate degree in Spanish or equivalent.
- 1105.585 SEMINAR IN MODERN SPANISH LITERATURE (3) Discussion of a figure or topic in modern Spanish or Spanish American Literature with changing emphasis from year to year. Prerequisite: Undergraduate degree in Spanish or the equivalent.

Music

Professors: ALPER, ARRINGTON (Choirperson), MYERS, DRUCKER, MARCHAND

Associate Professors: GRISWOLD, MELICK, LAWRENCE, RAUSCHENBERG, REYES, CYR, LOOMIS

Assistant Professors: CRAWFORD, LEVY, MERANI, MOORE, RICHARDSON, TAN, TERWILLIGER, ANTHONY, THOMPSON, BRISCUSO

Instructors: BLAKE, MINGER, PHILLIPS, SPACHT, WATTS, BARNES, BROWN, DAY, DECKER, FRANKEL, HAYES, JEZIC, McKEE-DAY, MARVINE, PALANKER, RIGGLE, CUMMINGS, BANGE, GRAVER, McCOMAS

For the non-major, or general student, the purposes are to give opportunities for enrichment of cultural background and creative expression; for the music major, the purposes are to give professional training so that he/she will attain a high standard of artistic performance, be prepared to teach, and be qualified in his/her chosen field. Ample opportunity is given for student participation in musical organizations and ensembles which provides both valuable experience, and contributes to the cultural life of the College and the community.

Non-Majors may elect any music course for which they have the prerequisites. Participation in musical organizations is open to all interested students. There is an additional fee for private lessons and registration for same must be made with the consent of the Music Department Chairman.

Departmental Office

Building — FA
Room — 373
Phone — 321-2143

Music Major

Students wishing to major in music or music education should write to the Chairman of the Music Department at the time they make application to Towson State University through the Director of Admissions.

A placement examination in performance and music theory will be given prospective applicants in the Spring preceding their college admission. The purpose of this examination is to aid the Music Department in determining the most satisfactory curriculum pattern for the individual student.

Students who do not satisfactorily pass the audition and/or the theory placement examination will either be accepted on a probationary basis or their applications will be rejected as music majors.

Each music major is required to choose a primary instrument or voice, and study with teachers provided by Towson State University. All students enrolled in private lessons will perform before a faculty jury at the end of each semester of private study. All students must pass upper division jury audition in order to enroll for upper division applied music.

Every Music Major (except the BA in Music Literature or Music Theory) will perform a senior recital on his/her primary performing medium as a requirement for graduation. Senior Recital may not be given during same semester as student teaching. (1) Student must be enrolled for private instruction during the semester the Senior Recital is given. Every music major must satisfy piano proficiency requirements in one of the following ways:

1. Successfully complete 2 semesters of Class Piano and one semester of Keyboard Harmony at Towson State University.
2. Perform before a faculty jury the piano proficiency examination. Requirements may be procured in the Music Department office.

Each music major is required to participate in music ensembles as listed below:

All performance (except guitar and keyboard majors), majors are required to participate and be enrolled in six semesters of the Group A Ensembles and six semesters of of the Group B ensembles listed below: All Music Theory and Music Literature majors must be enrolled in one Group A ensemble each semester. **GROUP A ENSEMBLES:** (Instrumental) Concert Band, Orchestra, Wind Ensemble, Jazz Ensemble. (Vocal) University Chorale, Men's Glee Club, Women's Chorus, Choral Society. **GROUP B ENSEMBLES:** (Instrumental) Brass Ensemble, Clarinet Choir, Early Music Ensemble, Flute Ensemble, Percussion Ensemble, Saxophone Ensemble, String Ensemble, Woodwind Ensemble, Chamber Singers, Octet, Opera Workshop. Two semesters of Group A may be substituted for two of the semesters in Group B at the option of the student.

Guitar performance majors are required to participate in eight semesters of Group A Ensembles which also includes Guitar Ensemble. Piano and Organ performance majors are required to participate in eight semesters of ensemble, six of which must be "Ensemble Accompanying."

Music education majors are required to participate in six semesters of music ensembles as follows:

Instrumental majors: Band or Orchestra

Vocal majors: University Chorale, Choral Society, Women's Chorus, Men's Glee Club.

The academic program in music will be determined on an individual basis for each transfer student based upon transcript evaluation, placement examination, and audition by the Music Department.

The Department of Music offers the following two courses of study:

1. A course of study preparing students to teach music as specialists, leading to a Bachelor of Science Degree in Music Education.

The following are the required courses for this academic department and the total number of credits needed by a student to fulfill this major. Students are reminded that they must also meet the General Education Requirements.

BACHELORS DEGREE . . . MUSIC EDUCATION

Vocal, General Music

Requirements

Major — Total — 71

1005.102	Music Literature for Majors	(3) _____
1005.131, 132	Music Theory I, II	(8) _____
1005.221, 222	Voice Class (Keyboard and Guitar Majors only)	(2) _____
1005.243	Recorder Class	(1) _____
or 1005.211, 215, 219, 220		
1005.231, 232	Music Theory III, IV	(8) _____
1005.301, 302	History of Music I, II	(6) _____

8032.307	Teaching Music in the Elementary School	(4) _____
0832.309	Methods of Teaching Choral & General Music in the Secondary School	(3) _____
1005.327	Choral Conducting	(3) _____
1005.335	Choral & Instrumental Arranging	(3) _____
0832.408	Organization & Administration of Music Education	(3) _____
1005.435	Form & Analysis	(3) _____
1005.499	Senior Recital	(1) _____
2001.101	General Psychology	(3) _____
0803.319	Survey of Education	(3) _____
2001.201	Educational Psychology	(3) _____
0803.401	Foundations of Education	(3) _____
0802.497	Elementary Student Teaching	(6) _____
0803.398	Secondary Student Teaching	(6) _____

Instrumental Music

Requirements

Major — Total — 78

1005.102	Music Literature for Majors	(3) _____
1005.131, 132	Music Theory I, II	(8) _____
1005.211, 212	Brass Class (Brass Majors take only 212)	(2) _____
1005.215, 216	Percussion Class (not required of Percussion Majors)	(2) _____
1005.219, 220	String Class	(2) _____
1005.221	Voice Class	(1) _____
1005.223, 224	Woodwind Class	(2) _____
1005.231, 232	Music Theory III, IV	(8) _____
1005.236	Percussion Workshop (Percussion Majors only)	(1) _____
105.301, 302	History of Music I, II	(6) _____
0832.307	Teaching Music in the Elementary School	(4) _____
0832.309	Methods of Teaching Instrumental Music	(2) _____
1005.329	Instrumental Conducting	(3) _____
1005.335	Choral & Instrumental Arranging	(3) _____
0832.408	Organization & Administration of Music Education	(3) _____
1005.435	Form & Analysis	(3) _____
1005.499	Senior Recital	(1) _____
2001.101	General Psychology	(3) _____
0803.319	Survey of Education	(3) _____
2001.201	Educational Psychology	(3) _____
0803.401	Foundations of Education	(3) _____
0802.497	Elementary Student Teaching	(6) _____
0803.398	Secondary Student Teaching	(6) _____

Minimum 7 credit Private Instruction in preparation for Senior Recital on primary performing medium.

Music Organizations 6 Semesters required:

Vocal — General Music

1005.263-266	Men or Women's Chorus	
1005.259-260	Choral Society	
1005.261-262	University Chorale	
1005.229	Conducting Lab Ensemble (1 semester requirement)	

Instrumental

1005.269-268	Orchestra	
1005.269-270	Band	

2. A course of study in the field of arts and sciences leading to a Bachelor of Arts degree with emphasis in performance, music theory, or music literature. The Bachelor of Arts degree in music is a program designed for the study of music within a liberal arts curriculum with a broad coverage of the field. The burden of study should be upon the literature of music designed to develop basic musicianship, the ability to perform the literature well, and provide a set of principles and terms that lead to a fuller intellectual grasp of the art. It means to give an appropriate background for prospective candidates for

advanced degrees who are preparing for such careers as musicology, composing, and performance.

BACHELORS DEGREE . . . B.A.

Foreign Language Requirement: Complete intermediate or equivalent.

Performance

Requirements

Major — Total — 78

		1
Private lessons		(16) _____
1005.102	Music Literature for Majors	(3) _____
1005.131-132	Music Theory I, II	(8) _____
1005.231-232	Music Theory III, IV	(8) _____
1005.301, 302	Music History I, II	(6) _____
1005.327	Conducting	(3) _____
or 329		
1005.406	Survey of Solo Voice Literature (Voice) (or Advanced Music History Course)	(3) _____
1005.417	Piano Literature (Keyboard) (or Advanced Music History Course)	(3) _____
1005.499	Senior Recital	(1) _____
1005.435	Form & Analysis	(3) _____

Music Electives — 15 credits

Select from following:

1005.401	Music Before 1600	(3) _____
1005.402	Baroque Music	(3) _____
1005.403	Music of the Classical Period	(3) _____
1005.404	Music of the Romantic Period	(3) _____
1005.405	Contemporary Music	
1005.407	Counterpoint	(3) _____
1005.411	Survey of Opera	(3) _____
1005.413	Symphonic Literature	(3) _____
1005.421	American Music	(3) _____
1005.423	History of Jazz	(3) _____
1005.427-428	Jazz Arranging I, II	(3) _____
1005.429-430	Jazz Improvisation I, II	(3) _____
1005.431	Advanced Choral & Instrumental Arranging	(3) _____
1005.433	Advanced Theory	(3) _____
Music Organization		(12) _____

Music Literature

Requirements

Major — Total — 75

Private lessons		(8) _____
1005.102	Music Literature for Majors	(3) _____
1005.131-132	Music Theory I, II	(8) _____
1005.231-232	Music Theory III, IV	(8) _____
1005.301, 302	Music History I, II	(6) _____
1005.335	Choral & Instrumental Arranging	(3) _____
1005.407	Counterpoint	(3) _____
1005.435	Form & Analysis	(3) _____
1005.493	Independent Research in Music Literature	(3) _____

Music Electives — 15 credits

Chosen from following:

1005.401	Music Before 1600	(3) _____
1005.402	Baroque Music	(3) _____
1005.403	Music of the Classical Period	(3) _____
1005.404	Music of the Romantic Period	(3) _____
1005.405	Contemporary Music	(3) _____
1005.411	Survey of Opera	(3) _____
1005.413	Symphonic Literature	(3) _____
1005.421	American Music	(3) _____
1005.423	History of Jazz	(3) _____

Music Electives — 9 credits

From above or the following:

1005.327-329	Conducting	(3) _____
1005.406	Survey of Solo Voice Literature	(3) _____
1005.417	Piano Literature	(3) _____
1005.427-428	Jazz Arranging I, II	(3) _____
1005.429-430	Jazz Improvisation I, II	(3) _____
1005.431	Advanced Choral & Instrumental Arranging	(3) _____
1005.433	Advanced Theory	(3) _____
Music Organization — one each semester		(8) _____

MUSIC THEORY

Requirements

Major — Total — 74

Private lessons	(8) _____
1005.102 Music Literature for Majors	(3) _____
1005.131, 132 Music Theory I, II	(8) _____
1005.221 Voice Class	(1) _____
1005.231-232 Music Theory III, IV	(8) _____
1005.301-302 Music History I, II	(6) _____
1005.327 Conducting	(3) _____
or 329	
1005.335 Choral & Instrumental Arranging	(3) _____
1005.387-388 Composition	(4) _____
1005.487-488 Composition	(4) _____
1005.407 Counterpoint	(3) _____
1005.431 Advanced Arranging	(3) _____
1005.435 Form & Analysis	(3) _____
Music Organization — one each semester	(8) _____
Music Electives — 9 credits	
_____	(3) _____
_____	(3) _____
_____	(3) _____

Final Project required: (Choose one)

- 1) Original compositions performed on Student or Faculty Recital.
- 2) Senior Thesis on approved topic.

MUSIC COURSES

(MUSIC = 1005; MUSIC APPLIED = 1004;
MUSIC EDUCATION = 0832)

Lower Division — Undergraduate

1005.101	INTRODUCTION TO MUSIC LITERATURE
(3)	Music literature to acquaint the student with music through class discussions and listening. Suggested course for the General Education requirement.
1005.102	MUSIC LITERATURE FOR MUSIC MAJORS
(3)	Introduction to the great musical works of the Western world primarily through listening, class discussion, and study of scores. Required of all Music Majors. Prerequisite: Music Major.
1005.103	INTRODUCTION TO TWENTIETH CENTURY MUSIC
(3)	A study of art music composed since 1900 through class discussions and listening. Suggested course for the general education requirements.
1005.111-112	WIND ENSEMBLE (1,1)
	Study and performance of advanced wind literature by a small band of selected instrumentalists. Audition required. May be repeated with credit.
1005.121	BASIC MUSIC THEORY (3)
	Instruction in basic music reading, scales, rhythms and elementary harmony. Designed for students whose theory placement exams indicate a need for remedial work in Music Theory. May not be counted towards the Music major.

1005.131-132 MUSIC THEORY I AND II (4,4) The study and practice of sight singing, ear training and harmony in integrated course. Prerequisite for Theory I: Ability to read treble and bass clefs and knowledge of major and minor scales. Theory Placement Exam. Prerequisite for Theory II: 1005.131.

1005.139-140 GUITAR ENSEMBLE (1,1) Study and performance of guitar ensemble music. Required of all Guitar majors. May be repeated with credit. Audition required.

1005.141-142 BRASS ENSEMBLE (1,1) Study and performance of advanced brass literature, required of all students majoring in brass instruments. Audition required. May be repeated with credit.

1005.145-146 PERCUSSION ENSEMBLE (1,1) Study and performance of advanced percussion literature; supplement and improve the percussion student's musical training by acquainting the student with the various techniques involved in performing on the numerous percussion instruments. Required of all percussion majors. Admission by permission of the director. May be repeated with credit.

1005.149-150 STRING ENSEMBLE (1,1) Study and performance of advanced string literature, required of all students concentrating in string instruments. Admission by permission of the director. May be repeated with credit.

1005.151-152 VOICE ENSEMBLE (1,1) Small group study and performance of advanced choral literature. Admission by permission of the director. May be repeated with credit.

1005.153-154 WOODWIND ENSEMBLE (1,1) Study and performance of advanced woodwind literature required of all students majoring in woodwind instruments, by permission of the director. May be repeated with credit.

1005.155-156 (54.155-156) CLARINET CHOIR (1,1) Study and performance of clarinet choir literature. Open to all students by audition. May be repeated with credit.

1005.157-158 JAZZ ENSEMBLE (1,1) Study and performance of music of the jazz idiom. Open to all students by audition. May be repeated with credit.

1005.157-172 BRASS PRIVATE LESSONS (1-2) Private lessons in brass. Fee of \$50.00 per semester per credit. One half-hour private lesson per week per credit plus one hour class lesson per week. May be repeated for credit. Prerequisite: Permission of dept. chairperson.

1004.173-174 ORGAN PRIVATE LESSONS (1-2) Private lessons in organ. Fee of \$50.00 per semester per credit. One half-hour private lesson per week per credit plus one hour class lesson per week. May be repeated for credit. Prerequisite: Permission of dept. chairperson.

1004.175-176 PERCUSSION PRIVATE LESSONS (1-2) Private lessons in percussion. Fee of \$50.00 per semester per credit. One half-hour private lesson per week per credit plus one hour class lesson per week. May be repeated for credit. Prerequisite: Permission of dept. chairperson.

1004.177-178 PIANO PRIVATE LESSONS (1-2) Private lessons in piano. Fee of \$50.00 per semester per credit. One half-hour private lesson per week per credit plus one hour class lesson per week. May be repeated for credit. Prerequisite: Permission of dept. chairperson.

1004.179-180 STRING PRIVATE LESSONS (1-2) Private lessons in strings. Fee of \$50.00 per semester per credit. One half-hour private lesson per week per credit plus one hour class lesson per week. May be repeated for credit. Prerequisite: Permission of dept. chairperson.

- 1004.181-182 VOICE PRIVATE LESSONS (1-2)
Private lessons in voice. Fee of \$50.00 per semester per credit. One half-hour private lesson per week per credit, plus one hour class lesson per week. May be repeated for credit. Prerequisite: Permission of dept. chairperson.
- 1004.183-184 [54.183-184] WOODWIND PRIVATE LESSONS (1-2) Private lessons in woodwinds. Fee of \$50.00 per semester per credit. One half-hour private lesson per week per credit plus one hour class lesson per week. May be repeated for credit. Prerequisite: Permission of dept. chairperson.
- 1004.185-186 GUITAR PRIVATE LESSONS (1-2)
Private lessons in guitar. Fee of \$50.00 per semester per credit. One half-hour private lesson per week per credit plus one hour class lesson per week. May be repeated for credit. Permission of dept. chairperson.
- 1004.187-188 [54.187-188] COMPOSITION PRIVATE LESSONS (1-2) Private lessons in composition. Fee of \$50.00 per semester. One half-hour private lesson per week per credit plus one hour class lesson per week. May be repeated for credit. Prerequisite: Permission of dept. chairperson.
- 1004.189-190 HARPSICHORD PRIVATE LESSONS
1 or 2) Private lessons in harpsichord. Fee of \$50.00 per semester per credit. One half hour lesson per week per credit, plus one hour class lesson per week. May be repeated for credit. Prerequisite: Permission of department chairperson. Equivalent proficiency level of junior in piano or organ and consent of instructor.
- 1005.201 OPERA WORKSHOP (2) Basic techniques of stage movement and related aspects of opera production. Musical and dramatic preparation of operatic scenes and roles. Participation in operatic performances. May be repeated for a maximum of 4.0 credits. Prerequisite: Consent of instructor.
- 1005.211-212 BRASS CLASS (1,1) Class instruction in brass instruments.
- 1005.215-216 PERCUSSION CLASS (1,1) Class instruction in percussion instruments.
- 1005.217-218 PIANO CLASS (1,1) Class instruction in piano playing, with one hour daily practice in preparation required. Open to beginning students and students with a minimum of piano work, by permission of the department chairperson.
- 1005.219-220 STRING CLASS (1,1) Class instruction in string instruments.
- 1005.221-222 VOICE CLASS (1,1) Class instruction in singing, with emphasis upon basic singing techniques and voice production through the use of song material.
- 1005.223-224 WOODWIND CLASS (1,1) Class instruction in woodwind instruments.
- 1005.225-226 GUITAR CLASS (1,1) Class instruction in guitar.
- 1005.229 CONDUCTING LABORATORY ENSEMBLE (1) Study and performance of ensemble music from elementary through secondary school levels. Provides performance experience for students on secondary instruments. Also provides conducting experience for students enrolled in Conducting Class. Music education majors required to take two semesters. Prerequisite: 1005.211 or 1005.219 or 1005.223 or 1005.215 or equivalent. Graded under S/U procedure.
- 1005.231-232 MUSIC THEORY III AND IV (4,4)
The study and practice of sight singing, ear training, and harmony in an integrated course. Prerequisite for Theory III: 1005.132. Prerequisite for Theory IV: 1005.231.
- 0832.233 MUSIC FUNDAMENTALS (2) Basic music skills and experience in the use of music instruments for prospective kindergarten and elementary teachers.
- 1005.235 KEYBOARD HARMONY (1) Keyboard application of theoretical techniques with emphasis on chordal harmonization, and transposition of melodies. Prerequisite: 1005.218 or equivalent.
- 1005.236 PERCUSSION WORKSHOP (1) Covers performance concepts and teaching concepts on all percussion instruments; class type lessons on auxiliary percussion; learning to maintain and repair mallets and instruments; learning to "custom make" beaters, holders, etc.; learning to write for percussion; rehearsing and conducting percussion solo and ensemble literature. Prerequisite: Open only to percussion majors in Music.
- 1005.243 RECORDER CLASS (1) Studying and performing works written particularly for the recorder. This course cannot be used towards fulfillment of the University's General Education Requirements. Prerequisite: Ability to read music.
- 1005.251 SOLO AND ENSEMBLE ACCOMPANYING (1) Practical experience under supervision in solo and ensemble accompanying. Prerequisite: One semester of piano and consent of instructor.
- 1005.257-258 PEP BAND (1,1) Wind ensemble which performs at various college functions such as athletic events, assemblies, etc. Prerequisite: Consent of instructor. May be repeated for credit.
- 1005.259-260 CHORAL SOCIETY (1,1) Study and performance of advanced choral literature. Admission by permission of the director. May be repeated with credit.
- 1005.261-262 UNIVERSITY CHORALE (1,1) Study and performance of advanced choral literature. Open to all students with audition. May be repeated with credit.
- 1005.263-264 [54.263-264] MEN'S GLEE CLUB (1,1) Study and performance of choral literature written and arranged for male voices. Open to all male students by permission of director. May be repeated with credit.
- 1005.265-266 WOMEN'S CHORUS (1,1) Study and performance of choral literature for female voices. Open to all females students by permission of director. May be repeated with credit.
- 1005.267-268 [54.267-268] ORCHESTRA (1,1) Study of orchestral literature. Open to all students by audition. May be repeated with credit.
- 1005.269-270 CONCERT BAND (1,1) The Band provides opportunities to perform a wide variety of literature, and to utilize the organization as a laboratory for conducting experience and performing on a secondary instrument for qualified students. Audition required.
- 1004.271-290 PRIVATE LESSONS (1-2) Refer to 171-188 for course description, fee and time. May be repeated for credit.

Upper Division — Undergraduate

- 1005.301-302 HISTORY OF MUSIC I, II (3,3)
Study of development of music in the western world through discussion, performance and recording. First semester includes music from the Greeks to the end of the Baroque period. Second semester traces the development of music from the Classic period to the present. Prerequisite: 1005.232.

0832.307 TEACHING MUSIC IN THE ELEMENTARY SCHOOLS (2-4) Acquaints students with music programs in the elementary school through lecture, class discussion, and practice with children. Prerequisite: 0832.233.

0832.308 METHODS OF TEACHING INSTRUMENTAL MUSIC (2) Methods and materials in the instruction of instrumental music, elementary through secondary. Prerequisite: To be taken with student teaching.

0832.309 METHODS OF TEACHING CHORAL AND GENERAL MUSIC IN THE SECONDARY SCHOOL (2) Methods and materials in the instruction of a general music program for the non-performing student, and a choral program for the performing student. Prerequisite: Taken with student teaching.

1005.311-312 ACCOMPANYING AND SIGHT READING I, II (3,3) Study of vocal and instrumental accompanying with emphasis upon sight reading, transposition, and acquaintance with vocal and instrumental literature. Prerequisite: Permission of instructor.

1005.327 CHORAL CONDUCTING (3) Group instruction in basic conducting techniques and interpretation with relation to choral organizations. Prerequisite: 1005.132 or permission of instructor.

1005.329 INSTRUMENTAL CONDUCTING (3) Group instruction in basic conducting techniques and interpretation with relation to instrumental organizations. Prerequisite: 1005.132 or permission of instructor.

1005.335 CHORAL AND INSTRUMENTAL ARRANGING (3) Composition and arranging techniques for voices and/or instruments. Prerequisite: 1005.232, equivalent, or consent of instructor.

1004.371-390 PRIVATE LESSONS (1-2) Refer to MUSIC 171-190 for course description, fee and time. May be repeated for credit.

Upper Division — Undergraduate and Graduate

1005.401 MUSIC PRIOR TO 1600 (3) The art of music in the West from its tentative beginnings in Greek and Hebrew to the year 1600 A.D. Prerequisite: Consent of Department Chairperson.

1005.402 MUSIC OF THE BAROQUE PERIOD (3) Style, forms and musical techniques from 1600 to 1750. Prerequisite: Consent of Department Chairperson.

1005.403 MUSIC OF THE CLASSICAL PERIOD (3) Styles, forms and techniques of the period from 1750-1820. Particular emphasis is placed on instrumental categories of the string quartet, sonata, symphony and concerto as illustrated in the works of Haydn, Mozart and Beethoven. Attention is given to operatic and sacred compositions of the same masters. Prerequisite: Consent of Department Chairperson.

1005.404 MUSIC OF THE ROMANTIC PERIOD (3) Musical styles, forms and techniques in the 19th century with special attention to the intellectual foundations of the Romantic movement. Prerequisite: Consent of Department Chairperson.

1005.405 CONTEMPORARY MUSIC (3) Styles, forms and musical techniques since 1900. Prerequisite: Consent of Department Chairperson.

1005.406 SURVEY OF SOLO VOICE LITERATURE (3) A music survey of the art-song form circa 1750 to the present. Prerequisite: 1005.232 or consent of instructor.

1005.407 COUNTERPOINT (3) A study of the polyphonic practices employed in 18th century tonal counterpoint. Prerequisite: 1005.232.

0832.408 ORGANIZATION AND ADMINISTRATION OF MUSIC EDUCATION (3) Seminar discussion of the problems of organization and administration of music education. Prerequisite: Music Student Teaching or consent of the instructor.

1005.409 HISTORY AND LITERATURE OF GUITAR, LUTE, AND VIHUELA (3) A survey of the history and literature written for or readily adaptable to the guitar. Prerequisite: 1005.232 or consent of the instructor. literature of various periods and styles. Prerequisite: Consent of Department Chairperson.

1005.411 SURVEY OF OPERA (3) Study of opera literature of various periods and styles. Consent of Department Chairperson.

1005.412 WIND ENSEMBLE (1) Study and performance of advanced wind literature by a small band of selected instrumentalists. Audition required. Prerequisites: Audition and permission of instructor.

1005.413 SYMPHONIC LITERATURE (3) Orchestral music from the baroque to the present. The concerto, symphony, overture and other orchestral forms are examined. Prerequisite: Consent of Department Chairperson.

1005.415 THE CONCERTO (3) A survey of the concerto form from its inception to the present. Analysis of stylistic, formal, and compositional aspects will be included. Prerequisite: Consent of department chairperson.

1005.417 PIANO LITERATURE (3) A survey of piano literature from 1600 to the present. Primarily a lecture/demonstration course, but with assigned reading and assigned listening. Prerequisite: 1005.232 or consent of instructor.

0832.417 CHORAL WORKSHOP IN ELEMENTARY AND SECONDARY SCHOOL MUSIC (2) The course follows a workshop format in which students will observe, conduct and evaluate rehearsals of the chorus made up of workshop participants. The content will include Sources and Selection of Music, Audition and Classification of voices, Pedagogy, Rehearsal techniques, Choral Arranging, Program Building and Programming. Prerequisite: 1005.327.

0832.419 WORKSHOP: ASPECTS OF STRING TEACHING (2-6) An extension course to be offered at various locations. The workshop includes private lessons, master classes, supervised laboratory experiences, as well as concerts, lectures and rehearsals designed to enrich the experience of string teachers and those interested in becoming public school string teachers. Sessions will vary in length from one to six weeks with appropriate credit awarded according to course requirements and contact hours. Prerequisite: Fulfillment of all requirements for teacher certification in instrumental music and consent of instructor.

1005.420 WORKSHOP IN MUSIC INSTRUMENT REPAIR (1) The course offered during the period of the summer music camp will focus upon practical problems and methodology of instrument repair and maintenance. Items/activities of the course will include, but not be limited to: 1) identifying repair problems, 2) equipment necessary for repair, and 3) repair methodology. The course will also provide information concerning maintenance and avoidance of repairs. Prerequisite: Six semesters of applied music or equivalent.

1005.421 AMERICAN MUSIC (3) American music from the Colonial Period to the present. Prerequisite: Consent of Department Chairperson.

1005.423 HISTORY OF JAZZ (3) Development of jazz and its peripheral effects upon music.

1005.424 ADVANCED WOODWINDS (Double Reeds)

- [3] Study of advanced techniques on bassoon and oboe. Special emphasis given to reed-making and instrument repair. Prerequisite: 1005.223, or consent of instructor.
- 1005.427-428 JAZZ ARRANGING I, II (3, 3) Study and practice of arranging of standard material for Jazz Ensembles. Prerequisite: 1005.232 or consent of instructor.
- 1005.429-430 JAZZ IMPROVISATION I, II (3, 3) Study and practice of improvising in various jazz styles. Prerequisite: 1005.231-232 or consent of instructor.
- 1005.431 ADVANCED CHORAL AND INSTRUMENTAL ARRANGING (3) Advanced arranging techniques including the scoring of original and other works for various combinations of instruments and/or voices. Prerequisite: 1005.335, or equivalent, or consent of instructor.
- 1005.432 SEMINAR IN ADVANCED INSTRUMENTAL CONDUCTING AND INTERPRETATION (1) Provides opportunity to study and discuss music literature and performance problems with nationally known conductors during the music camp. Music selected to be performed by the camp participants will be examined and evaluated in terms of conducting techniques and interpretation. As a part of this process, students will be required to observe and evaluate camp performances. Prerequisite: 1005.329 or equivalent and/or consent of instructor.
- 1005.433 ADVANCED THEORY (3) Continued development of skills in more advanced melodic, harmonic and rhythmic aspects of music through hearing, playing and writing. Prerequisite: 1005.232.
- 1005.435 (54.435) FORM AND ANALYSIS (3) Analysis of vocal and instrumental literature. Prerequisites: 1005.232.
- 1005.449-450 STRING ENSEMBLE (1, 1) Study and performance of advanced string literature, required of all students majoring in string instruments. Admission by permission of director. May be repeated with credit.
- 1005.459-460 CHORAL SOCIETY (1, 1) Study and performance of advanced choral literature. May be repeated with credit.
- 1005.467-468 ORCHESTRA (1, 1) Study of orchestral literature. Open to all students by audition. May be repeated with credit.
- 1005.469-470 CONCERT BAND (1, 1) Study and performance of band literature. Open to all students by audition. May be repeated with credit.
- 1005.471-479 SPECIAL TOPICS IN MUSIC LITERATURE (3) Consideration of a central topic of Music Literature with a different topic selected each semester. May be re-elected. Prerequisite: 1005.232 and consent of instructor.
- 1004.471-490 PRIVATE LESSONS (1-3) Refer to MUSIC 171-190 for course description, fee and time. May be repeated for credit.
- 1005.493 INDEPENDENT RESEARCH IN MUSIC LITERATURE (1-4 credits undergraduate; 3 credits graduate) Supervised research and musicological investigation of a selected topic culminating in a written senior thesis. May be repeated with credit. Prerequisites: 1005.301, 1005.302, and six hours of Advanced Music Hist. courses.
- 1005.499 SENIOR RECITAL (1) Recital performance for graduation requirement. Prerequisites: Minimum of 6 credits in Private Lessons and approval of Department Chairperson. Undergraduate credit only. Graded under S/U procedure.

Graduate Division

- 0832.501 CURRENT TRENDS IN MUSIC AND MUSIC EDUCATION (3) A survey of current philosophies and objectives of music in the schools, and the scope and sequence of the music curricula, vocal and instrumental, on the elementary and secondary levels. Prerequisite: Admission to Graduate Program.
- 1005.515 THE CONCERTO (3) A survey of the concerto form from its inception to the present. Analysis of stylistic, formal, and compositional aspects will be included. Prerequisite: Admission to Graduate standing with Music Major, or Consent of Department Chairperson.
- 1005.539 MUSIC COMPOSITION (3) Analysis and discussion of works of major composers. Writing of original compositions in vocal and instrumental idioms. Prerequisites: 1005.232, 1005.335, 1005.435.
- 1005.561 SEMINAR IN INSTRUMENTAL MUSIC (3) Comparative analysis of current methods and materials used in schools and colleges. Instrumental conducting and repertoire. Construction of acoustical properties and basic techniques of instruments. Problems of ensemble and balance. Intonation, precision and interpretation are studied. Materials and music literature for bands, orchestras and small ensembles are evaluated. Prerequisite: Admission to the Graduate Program.
- 1005.562 SEMINAR IN CHORAL (VOCAL) MUSIC (3) Comparative analysis of current methods and materials used in schools and colleges. Choral conducting and repertoire. Style, interpretation, tone quality, diction, rehearsal and conducting techniques are analyzed. Prerequisite: Admission to the Graduate Program.
- 1004.571-588 PRIVATE LESSONS (1-3) Refer to MUSIC 171-188 for course description, fee and time. May be repeated for credit.
- 1005.595 RESEARCH METHODS IN MUSIC AND MUSIC EDUCATION (3) The application of methods of research to problems in the field of music and music education, the preparation of bibliographies and specialized techniques for the location, collection, and treatment of data. The written exposition of research projects in the area of the student's major interest. Prerequisite: Admission to the Graduate Program.
- 1005.697 THESIS PROJECT (3) Thesis Project includes: Graduate recital or musical composition in lieu of thesis. Prerequisite: Approval of Music Department Graduate Committee.
- 1005.699 THESIS (3)

Nursing

Associate Professors: DAURIA (Chairperson), SCHWALM

Assistant Professors: DAVIES, HARRELL, INGRAM, KEENEN, LEE, MAGNESS, MIDKIFF, MOLLICK, SCHRODER, WILEY

In response to community needs for professional nurses in health care delivery, a baccalaureate program in professional nursing leading to the Bachelor of Science Degree has been initiated at Towson State. Development of the curriculum in the Nursing major was begun in September 1970 with the acceptance of the first group of students in February 1972. The curriculum is designed to meet the changing conceptual role of nursing as it evolves from the health needs of society—

THAT of using a unique core of knowledge and actions to assist individuals, families and groups in various stages of the life cycle and in varied environmental settings to maximize their highest level of wellness;

THAT of preparing citizens who value thought and involvement.

Therefore, courses in the Nursing major are designed around the episodic-distributive* nursing care concept.

Attainment of the curriculum's objectives is accomplished through course study in the liberal arts, the sciences and Nursing. The completion of the general course offerings required of all students of the University—plus selected academic and professional courses—requires four academic years (full-time enrollment in the Upper Division is required in the Nursing major). As an integral part of each Nursing course, the learning process is extended from the University to a variety of health agencies in the greater Baltimore area.

Departmental Office

Building — BU
Room — 109
Phone — 321-2067

General

Enrollment at the high school level in the following courses is strongly recommended to provide the foundational base for the Nursing major: mathematics — 3 units (including two years of algebra); chemistry — 1 unit; biology — 1 unit; physics — 1 unit.

Before a student can be considered for admission to study in the Department of Nursing, he or she must be admitted to the University. However, admission to the University does not constitute or guarantee admission to the Nursing major.

All students wishing to pursue the Nursing major must contact the Department of Nursing at the time of application for admission to the University to complete the required "Pre-Nursing Student Information" form. The absolute deadline for filing this form for students enrolled at Towson is May 15th preceding matriculation in the major (enrollment in 1203.221 — Introduction to Professional Nursing Practice); students transferring into Towson the same semester they plan to enroll in the first Nursing offering (1203.221) must submit the completed form by the previous October 15th.

Admission to the Department of Nursing is made only by the Departmental Faculty based on the "Criteria for the Selection of Nursing Majors." Copies of the Criteria are available from the Nursing office. Due to our Depart-

ment's limited enrollment policy, all students are strongly urged not only to establish themselves early with the Nursing Department but to obtain and be familiar with the Criteria for Selection of Nursing Majors.

Because of existing problems in securing a sufficient number of Faculty to meet the demands of classroom and clinical instruction and a limited number of available health facilities in which to provide clinical learning opportunities for all students enrolled in the Nursing major, only fifty (50) students will be accepted to study in the Nursing major each year.

BECAUSE OF THE LIMITED CLASS SIZE, STUDENTS ARE ADVISED TO SEEK ALTERNATIVE ENROLLMENT OPPORTUNITIES IN OTHER FOUR-YEAR NURSING PROGRAMS (List available in Department office).

Transfer and Second Degree Students

These students must obtain the Department's "Guidelines for Transfer and Second Degree Students," in addition to filing the required "Pre-Nursing Student Information" form.

Registered Nurses

At the present time, the Department of Nursing has not finalized a program for RNs seeking a baccalaureate degree; however, the faculty is currently developing challenge opportunities for academic credit and advanced placement for knowledges and skills acquired through nursing education and/or nursing experience. Academic advising concerning prerequisite course work is available in the Department for RNs.

Academic Standards

In order to remain in and graduate from the Nursing major, students are required to maintain a grade of "C" (2.0) or better in each Nursing course (in addition to attaining the cumulative grade point average required by the University).

Program Approval and Memberships

The Nursing Program is approved by the Maryland State Board of Examiners of Nurses and accredited by the National League for Nursing. Students graduating from the Nursing major are eligible to write the State Board Examination for licensure as a Registered Nurse in the State of Maryland. The Department of Nursing holds memberships in the American Association of Colleges of Nursing, the Council of Baccalaureate and Higher Degree Programs of the National League for Nursing, and the Council on Collegiate Education in Nursing of the Southern Regional Education Board.

Financial Aid and Special Obligations

Federal Nursing Student Grant and Loan Funds and other sources of assistance are available to eligible students. Information may be obtained from the University's Office of Financial Aid.

Students in the Nursing major are required to:

- a) carry nursing student liability insurance through the insurance company selected by Departmental Faculty (approximately \$20. annually);

- b) carry hospitalization insurance including accident and/or emergency benefits;
- c) purchase appropriate clinical attire initially selected by students in the Nursing major and Departmental Faculty (approximately \$300 for total program);
- d) have a driver's license and provide their own travel to and from the clinical facilities and must, for clinical experiences, have access to the independent use of a car.

COURSE REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREE IN NURSING

The University requires a total of 120 credits "of 'C' work or better" for graduation. However, established Departmental requirements must also be completed for graduation with a Nursing major. This necessitates completion of approximately 130 credit hours for most students enrolled in the Department as follows:

Lower Division

0501.102	Freshman Composition	(3) _____
0401.101	Contemporary General Biology	(4) _____
1905.105	Chemistry for the Allied Health Professions I	(4) _____
2208.101	Introductory Sociology	(3) _____
0836.	Student elective from Physical Education offerings	(1) _____
1701.115	Mathematics I	(3) _____
2001.101	General Psychology	(3) _____
1905.106	Chemistry for the Allied Health Professions II	(4) _____
0401.113	Human Anatomy and Physiology I	(4) _____
2001.203	Human Development	(3) _____
1201.204	Nutrition	(3) _____
0401.114	Human Anatomy and Physiology II	(4) _____
1203.221	Introduction to Professional Nursing Practice	(4) _____

*tentative: allowance must be made for completion of one additional college-level writing course

Select one of the following:

0401.315	Medical Microbiology	(4) _____
0401.318	Microbiology	(4) _____

#Select two different courses from Group I-A as outlined in this catalogue (Art, Music, or Theatre Arts):

_____	(3) _____
_____	(3) _____

#Select two courses from Group I-B as outlined in this catalogue (English, History, Modern Languages, or Philosophy) [a total of four courses must ultimately be taken in three different disciplines; note: the first semester of any elementary language course may not be used]:

_____	(3) _____
_____	(3) _____

#Select one course from Group III as outlined in this catalogue (Anthropology, Economics, Geography, or Political Science) [a total of two courses must ultimately be taken in two different disciplines]:

_____	(3) _____
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Upper Division

1203.311	Distributive Care: Contemporary Family Health Care	(4) _____
1203.312	Episodic Care: Contemporary Family Health Care	(9) _____
1701.237	Elementary Biostatistics	(4) _____

1203.321	Distributive Care: Acute-Chronic Health Problems	(4) _____
1203.322	Episodic Care: Acute-Chronic Health Problems	(9) _____
1203.411	Distributive Care: Complex Community Health Problems	(4) _____
1203.412	Episodic Care: Complex Clinical Situations	(9) _____
1203.423	Nursing Leadership	(9) _____
Select one of the following:		
1203.421	Advanced Distributive Care	(4) _____
1203.422	Advanced Episodic Care	(4) _____

#Select two courses from Group I-B as outlined in this catalogue (English, History, Modern Languages, or Philosophy) [a total of four courses must ultimately be taken in three different disciplines; note: the first semester of any elementary language course may not be used]:

_____	(3) _____
_____	(3) _____

#Select one course from Group III as outlined in this catalogue (Anthropology, Economics, Geography, or Political Science) [a total of two courses must ultimately be taken in two different disciplines]:

_____	(3) _____
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NOTE:

- #1 All students who entered Towson State University prior to September 1977 or started their college studies at another school prior to that time have the option of: (a) following the Curriculum Plan as outlined above (Option II) or (b) following the old Curriculum Plan (Option I), copies of which are available in the Department of Nursing Office, as long as requirements for the degree are completed within seven years according to University policy.
- #2 All Lower Division courses must be completed by the end of the Spring Semester in which the course 1203.221 is completed.
- #3 Pre-Nursing students demonstrating competencies covered in 1701.115 (as determined by the Mathematics Department) may enroll in an alternative offering of one of the following: 1701.116; 1701.119, or 1701.273, in order to meet the Mathematics requirement for the Department of Nursing. Placement in the particular course is determined by the Mathematics Department.
- #4 The specific college-level writing course required in Group IV of the General University Requirements and effective for students opting to follow the Curriculum Plan outlined above must be in accordance with the General University Requirements of All Students.
- #5 Students may elect to take a maximum of twelve credits from those courses indicated by # under the University's Pass Option Plan following the guidelines as outlined in this catalogue.
- #6 When a student pursues study under Option II of the Curriculum Plan, please note that a microbiology course taken either at a community college or from the Lower Division (100 or 200 level) of a four-year college or university will not satisfy this University's General Requirements. The course may be taken but it will be necessary for students to discuss alternatives with an advisor in the University's Department of Nursing. It is recommended that students transferring to Towson for the Nursing major complete their microbiology course at Towson.

AS THESE REQUIREMENTS MAY, FROM TIME TO TIME, BE REVISED, IT IS THE STUDENT'S RESPONSIBILITY TO MAKE CERTAIN THAT HE OR SHE IS WORKING WITH THE MOST CURRENT CURRICULUM OUTLINE.

NURSING COURSES (1203)

Lower Division — Undergraduate

1203.221 INTRODUCTION TO PROFESSIONAL NURSING PRACTICE (4) This course concentrates on developing intellectual skill in the assessment, nursing intervention and instruction of health maintenance for man and society. Attention is given to selected environmental forces which alter the well-being of many followed by study and observation of man's adaptive behaviors to biological, psychosocial and environmental changes. Selected historical perspectives in nursing are included. Prerequisite: acceptance into the Nursing major by Departmental Faculty.

Upper Division — Undergraduate

1203.311 DISTRIBUTIVE CARE: CONTEMPORARY FAMILY HEALTH CARE (4) This course concentrates on developing intellectual sensitivity to the changing developmental needs and conceptual role of the family and its members. Attention is given to the study and application of prevention and health maintenance concepts specific to each developmental stage from birth to young adulthood. Nursing practice takes place in a variety of environmental settings exclusive of a hospital confinement. Prerequisite: 1203.221.

1203.312 EPISODIC CARE: CONTEMPORARY FAMILY HEALTH CARE (9) Course emphasis is on the application of a defined scope of scientific knowledge and skill unique to curative and restorative nursing care of hospitalized patients from birth through young adulthood. This course is taken concurrently with the course 1203.311 to provide comprehensive study in applying nursing practice to the dynamic needs of persons of the aforesaid age groups in various environmental settings. Prerequisite: 1203.221.

1203.321 DISTRIBUTIVE CARE: ACUTE-CHRONIC HEALTH PROBLEMS (4) This course concentrates on developing keen intellectual sensitivity to the nurturing needs of individuals within society. Emphasis is on the prevention of acute-chronic diseases and the maintenance of health for people from young adulthood to senescence. Nursing practice is directed toward the continuous care of persons not confined to hospitals. Prerequisites: 1203.311 and 1203.312.

1203.322 EPISODIC CARE: ACUTE-CHRONIC HEALTH PROBLEMS (9) Course emphasis is on the application of a defined scope of scientific knowledge and skill specific to curative and restorative nursing care of hospitalized patients with acute or chronic health problems. This course is taken concurrently with the course 1203.321 to provide comprehensive study in dynamic, progressive nurse-patient care in various hospital settings. Prerequisites: 1203.311 and 1203.312.

1203.411 DISTRIBUTIVE CARE: COMPLEX COMMUNITY HEALTH PROBLEMS (4) This course offers study in the inter-relationship and application of nursing interventions specific to multi-faceted health problems within contemporary urban and suburban settings. Attention is given to the nurse as an interdisciplinary health team member who provides psycho-social, as well as physical care to individuals and families. Prerequisites: 1203.321 and 1203.322.

1203.412 EPISODIC CARE: COMPLEX CLINICAL SITUATIONS (9) This course focuses on comprehensive knowledge of human behavior, technology and procedures. Concentration is judiciously applied to curative and restorative care of patients with complex health problems and confined to general or psychiatric health care insti-

tutions. Prerequisites: 1203.321 and 1203.322. It is taken concurrently with 1203.411.

1203.421 ADVANCED DISTRIBUTIVE CARE (4) This course offers further study and increased competence in nursing practice. Emphasis is on health maintenance and disease prevention for persons not confined to health care institutions. According to interest, the student selects the environmental setting and the particular individual-group health problems for independent study. Prerequisites: 1203.411 and 1203.412.

1203.422 ADVANCED EPISODIC CARE (4) This course offers further study and increased competence in nursing practice. Emphasis is on curative and restoration care for hospitalized persons with acute-chronic physiologic and psychiatric problems. According to interest, the student selects the clinical setting and the particular individual-group problem for independent study. Prerequisites: 1203.411 and 1203.412.

1203.423 NURSING LEADERSHIP (9) The focus of this course is on the study of cross-relationships between human relations and organizational effectiveness for the delivery of health care. Attention is given to leadership skills, professional ethics, legal boundaries, the economics of health services and citizenship. Prerequisites: 1203.411 and 1203.412. This course is taken concurrently with 1203.421 or 1203.422.

NOTE: DISTRIBUTIVE CARE is the area of concentration in nursing practice which emphasizes that aspect essentially designed for health maintenance and disease prevention. This is generally continuous in nature, seldom acute and increasingly will take place in community or emergent institutional settings.*

EPISODIC CARE is the area of concentration in nursing practice which emphasizes that aspect essentially curative and restorative, generally acute or chronic in nature, and most frequently provided in the setting of the hospital or in-patient facility.*

* National Commission for the Study of Nursing and Nursing Education, *An Abstract for Action* (New York: McGraw-Hill Book Company, 1970), pp. 91 and 92.

ORIENTATION

Chairperson — DR. DONALD SQUIRE

The purpose of courses in the Orientation Department is to provide students with and refine interpersonal helping, tutorial, and program development skills. There is no major or minor available in this discipline; and students are limited in the number of credits from this discipline which may be applied toward the degree. See the chairperson for details.

ORIENTATION COURSES (9500)

9500.101 ORIENTATION (1) This course is designed to facilitate greater college survival skills. It will include topics such as preparing for a term paper, study skills development, decision making, choosing a major, how to study for exams. Topics will be discussed within a practical framework and current theoretical research perspectives. Course does not carry credit toward graduation (graded under S/U procedure).

9500.301-302 TRAINING IN LEADERSHIP AND HUMAN RESOURCE SERVICES I, II (2, 2) Development of skills for counseling the older adolescent. Second semester includes application of theory as student assumes leadership of a freshman orientation section. Both semesters must be completed to receive credit. Prerequisite: Consent of instructor.

Philosophy and Religion

Professors: MADDEN

Associate Professors: deBRABANDER (Chairperson), FUCHS,
HILL, MURUNGI

Instructor: ROBERTSON, NERSESSIAN

Courses offered by the Department are historical, systematic, analytic, or speculative, according to the nature of the course, the interests of the instructor, and the composition of the particular class. The attitude that informs all courses is scholarly or speculative, rather than sectarian or dogmatic.

The following are the required courses for this academic department and the total number of credits needed by a student to fulfill this major. Students are reminded that they must also meet the General Education Requirements.

Departmental Office

Building — LI

Room — 219G

Phone — 321-2750

BACHELORS DEGREE . . . PHILOSOPHY

Requirements

Major — total — 30

Minor — total — 21

1509.111 Logic (3)

1509.341 Ethics (3)

Four of the Following:

1509.221 Ancient Greek Philosophy

1509.322 Late Classical and Medieval Philosophy

1509.323 Late Medieval and Renaissance Philosophy

1509.324 Modern Philosophy

1509.325 Schools of Contemporary Philosophy

1509.326 American Philosophy

Twelve credits of electives including at least six credits in the 440-449 or 470-479 series. Six credits may, with the permission of the Chairman, be taken in allied disciplines, e.g., history, mathematics, political theory, psychology, religion. In exceptional instances students may, with permission, make substitutions for required courses e.g., a higher numbered course may be substituted for a lower numbered course.

MINOR:

1509.111 Logic (3)

1509.341 Ethics (3)

Three of the Following:

1509.221 Ancient Greek Philosophy

1509.322 Late Classical and Medieval Philosophy

1509.323 Late Medieval and Renaissance Philosophy

1509.324 Modern Philosophy

1509.325 Schools of Contemporary Philosophy

Six credits of electives offered by the department.

PHILOSOPHY COURSES (1509)

Lower Division — Undergraduate

1509.101 INTRODUCTION TO PHILOSOPHY (3) An introduction to some fundamental problems of philosophy

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and to various proposals for the solution of these problems.

1509.111 LOGIC (3) Study of and practice in inductive and deductive reasoning, the composition of argument, and demonstration, and the detection of formal and informal fallacies.

1509.221 ANCIENT GREEK PHILOSOPHY (3) The origins of Western philosophical thought will be studied in the works of the pre-socratics, Socrates, Plato, and Aristotle.

1509.231 INTRODUCTION TO THE PHILOSOPHY OF SCIENCE (3) An examination of the nature of scientific inquiry in terms of its methods, aims, and results. Considers the criteria for evaluating theories and practices as well as such topics as the evolution of scientific methods, the formulation of scientific standards, and the development of scientific concepts such as space, time, and matter. Technical scientific knowledge is not a prerequisite.

1509.251 CONTEMPORARY AFRICAN-AMERICAN THOUGHT (3) A philosophical examination of the current issues in African-American thought in such fields as religion, politics, education, economics and aesthetics. An effort will be to determine the place and the role of the contemporary African-American in history.

1509.270-279 PHILOSOPHICAL PERSPECTIVES (3) The course will consider contemporary issues from the uniquely philosophical perspective to stimulate independent reflection on the part of the student.

Upper Division — Undergraduate and Graduate

1509.301 (58.301) PHILOSOPHIES OF INDIA (3) Examination of major ideas in the Vedic, Epic, Classical darsana, and modern periods. Prerequisite: One lower level course in philosophy or consent of instructor.

1509.302 PHILOSOPHIES OF CHINA AND JAPAN (3) Examination of some major philosophical systems through selected writings in translation. Prerequisite: One lower level course in philosophy or consent of instructor.

1509.311 SYMBOLIC LOGIC (3) An introduction to the concepts and methods of symbolic logic. Translation of arguments from English into symbolic notation; methods of establishing the validity of arguments by means of symbolic logic. Discussion of logical notions such as consistency and inconsistency, logical truth, and the philosophy of logic. Prerequisite: 1509.111.

1509.322 LATE CLASSICAL AND MEDIEVAL PHILOSOPHY (3) (Should not be attempted without having taken 1509.101 or 1509.221.)

1509.323 LATE MEDIEVAL AND RENAISSANCE PHILOSOPHY (3) (Should not be attempted without having taken 1509.101 or 1509.221.)

1509.324 MODERN PHILOSOPHY (3) The history of philosophy beginning with Descartes through the 19th century. Prerequisite: Should not be attempted without having taken 1509.101 or 1509.221.

1509.325 SCHOOLS OF CONTEMPORARY PHILOSOPHY (3) A survey with varying emphases on a number of such contemporary philosophical positions as pragmatism, phenomenology, logical positivism, the analysts, neo-Aristotelianism, the philosophers of science, and the existentialists. Prerequisite: Should not be attempted without having taken 1509.101 or 1509.

- 1509.326 AMERICAN PHILOSOPHY (3) A study of the main currents of American philosophical thought as exemplified in such writers as Edwards, Emerson, Pierce, James, Royce, Dewey and Whitehead. Prerequisite: Should not be attempted without having taken 1509.101 or 1509.221.
- 1509.331 CONCEPTS OF WOMAN: A HISTORICAL APPROACH (3) Various concepts which philosophers have used to define woman. A historical survey approach, with readings by Plato, Aquinas, and others, and ending with Beauvoir. Prerequisite: 1509.101 or 1509.221.
- 1509.339 THEORY OF KNOWLEDGE (3) An historical and systematic approach to the truth value and elements of the forms of human knowledge. The theories of major philosophers will be studied. Prerequisite: 1509.101, 1509.111 or 1509.221.
- 1509.341 ETHICS (3) Analysis of reading from the principle classical and contemporary ethical sources; study of the basic moral concepts as found in these sources; application to contemporary moral concerns. Prerequisite: 1509.101 or 1509.221.
- 1509.343 AESTHETICS (3) An analytic and historical examination of concepts of the nature of art, beauty, aesthetic value, aesthetic perception, and of the modes of existence of artifacts. Prerequisite: 1509.101 or 1509.221.
- 1509.351 CONTEMPORARY ETHICAL PROBLEMS (3) The course will treat the meaning of moral experience and the moral problems which arise in connection with human sexual integrity, ownership of property, welfare, violence, civil disobedience, punishment, war, and truth telling in social relations and government. Prerequisites: 1509.101 or 1509.221.
- 1509.354 PHILOSOPHY OF BIBLICAL LITERATURE: OLD TESTAMENT (3) Major themes of the Biblical Literature, and of its religious, philosophical and cultural implications. Prerequisite: At least one lower division course in Philosophy or Religion, or a relevant History course.
- 1509.361 ETHICS OF MEDICINE AND THE LIFE SCIENCES (3) A search for guidelines in such moral problems as abortion, the care of the dying, organ transplants, informed consent in therapy and experimentation, adequate health care and its just distribution, control of human behavior by drugs, surgery, etc., test-tube reproduction, population control, genetic engineering and counseling. Prerequisite: 1509.101 or 1509.221 or consent of instructor.
- 1509.371 CONTEMPORARY ETHICAL PROBLEMS: BUSINESS AND SOCIETY (3) A theoretical and practical study of the ethical aspects of American business. The course will focus on present moral, ethical, and social standards in American business and will examine the forces at work in our society which affect future standards of corporate conduct. Prerequisite: A previous course in philosophy or consent of instructor.
- 1509.421 ARCHAEOLOGY OF PALESTINE AND TRANS-JORDANIA (3) A study using audio-visual aids of the aims, techniques and artifacts of biblical archaeology. Research exercises may require the use of museums, collections and libraries. Prerequisites: 1509.461 or any introductory course in Geography, History, Philosophy, or Consent of Department Chairperson.
- 1509.440-449 PHILOSOPHICAL SYSTEMS (3) The study of a major philosophical system or position, classical or modern, and of its important proponents. Prerequisite: Two previous courses in Philosophy.
- 1509.451 PHILOSOPHY OF RELIGION (3) Exposition of various approaches to the philosophy of religion with an analysis of the major issues on which they differ and agree. Prerequisite: 1509.101 or 1509.221.
- 1509.454 PHILOSOPHY OF BIBLICAL LITERATURE: NEW TESTAMENT (3) Major themes of the Biblical Literature, and of its religious, philosophical and cultural implications. Prerequisite: At least one lower division course in Philosophy or Religion, or a relevant History course.
- 1509.455 HELLENISTIC ERA (3) Three significant phases of the preparation of the Mediterranean world for the Hebraic-Hellenic synthesis: (1) Judaism, (2) Hellenism, and (3) the Roman conquest. Contribution of archaeology will be indicated. Prerequisite: At least one lower division course in Philosophy or Religion, or a relevant History course.
- 1509.457 COMPARATIVE RELIGION I (3) Examination of some fundamental issues in Hinduism, Buddhism, Confucianism, Taoism and Shinto in the light of the ideas of one of the following philosophers of religion: James, Whitehead, Wach, Otto, Tillich, Radhakrishnan, Tagore and Sri Aurobindo. Prerequisite: At least one lower division course in Philosophy, Religion or History.
- 1509.458 COMPARATIVE RELIGION II (3) Examination of some fundamental issues in Zoroastrianism, Islam and Christianity in the light of the ideas of one of the following philosophers of religion: James, Wach, Whitehead, Otto, Tillich, Radhakrishnan, Tagore, and Sri Aurobindo. Prerequisite: At least one lower division course in Philosophy, Religion or History.
- 1509.459 PROTESTANT, CATHOLIC, JEW (3) Judaism and Christianity. A study of their biblical, historical and cultural sources. Prerequisite: At least one lower division course in Philosophy or Religion, or a relevant History course.
- 1509.461 THE HISTORICAL GEOGRAPHY AND ARCHAEOLOGY OF PALESTINE (3) The course seeks to assess the role of geographical, archaeological, and historical disciplines, used conjointly, in biblical interpretation. Prerequisite: Any introductory course in Geography, History or Philosophy, or Consent of Department Chairperson.
- 1509.470-479 PHILOSOPHICAL PROBLEMS (3) A consideration of one of the perennial interests of philosophy. Prerequisites: Two previous courses in Philosophy.
- 1509.495 RESEARCH TUTORIAL IN PHILOSOPHY (3) Directed readings and research leading to a thesis paper under one or more members of the Department. Prerequisite: Senior majors in Philosophy or senior non-majors, submission in advance of an outline of proposed research, permission of proposed director and department chairperson.

Physical Education

Professors: CONARD, EASON (Choirperson), MEINHARDT, SHEETS, ZEIGLER

Associate Professors: BREAZEALE, KILLIAN, McGINTY, MYRANT, RIORDON, SLEVIN, VERKRUZEN

Assistant Professors: ALBERT, ANGOTTI, BLANN, BOUCHER, BOUTON, FAULKNER, FIELD, FINCH, FORBES, HARRIS, KENNARD, McDONALD, RUNK, STINAR

Instructors: BRITT, DOBKIN, DUNCAN, WALL, WALTER, WANLESS, YERKES

Assistant Instructor: ROSS

PROGRAM FOR NON-MAJORS

The program of physical education is planned to provide the student with an opportunity to acquire the skills and understanding of selected physical activities. Emphasis is placed on the development of sufficient competence to promote satisfaction and enjoyment in sports and recreational activities. To meet the general course requirements of all students in Group IV, a minimum of one credit must be taken from 0835.011-0835.277. All courses admit men and women, but several are more specifically designated in the University Schedule Bulletin. Students with medical screened physical limitations may elect adapted physical education 0835.010. Activity courses may be taken each semester of the student's academic career. Course outlines for all activity courses are available in the Department of Physical Education office.

A partial list of course offerings follows:

0835.010	Adaptive Modified	(1.0) _____
0835.011	Archery I	(0.5) _____
0835.013	Badminton I	(0.5) _____
0835.015	Bicycle Touring	(0.5) _____
0835.016	Billiards	(0.5) _____
0835.018	Body Mechanics	(0.5) _____
0835.019	Bowling	(0.5) _____
0835.021	Conditioning	(0.5) _____
0835.023	Elementary Backpacking	(1.0) _____
0835.025	Fencing I	(0.5) _____
0835.027	Golf I	(0.5) _____
0835.029	Gymnastics I	(0.5) _____
0835.031	Handball	(0.5) _____
0835.037	Orienteering	(0.5) _____
0835.038	Paddle/Racketball	(0.5) _____
0835.041	Basic Rock Climbing	(1.0) _____
0835.043	Self Defense I	(0.5) _____
0835.045	Squash Racquets	(0.5) _____
0835.047	Tennis I	(0.5) _____
0835.060	Swimming I	(1.0) _____
0835.061	Swimming II	(0.5) _____
0835.260	Swim III	(0.5) _____
0835.064	Basic Canoeing	(0.5) _____
0835.066	Basic Sailing	(1.0) _____
0835.068	Water Polo	(0.5) _____
0835.070	Folk Dance I	(0.5) _____
0835.072	Social Dance	(0.5) _____
0835.074	Beginning Ballet I	(1.0) _____
0835.075	Beginning Ballet II	(1.0) _____
0835.076	Beginning Modern Dance I	(1.0) _____
0835.077	Beginning Modern Dance II	(1.0) _____
0835.078	Jazz Dance I	(1.0) _____
0835.203	Basketball I	(0.5) _____
0835.207	Field Hockey I	(0.5) _____
0835.209	Football I	(0.5) _____
0835.219	Rugby	(0.5) _____
0835.228	Volleyball I	(0.5) _____
0835.243	Mountaineering	(3.0) _____

0835.261	Advanced Life Saving	(1.0) _____
0835.262	Water Safety Instructor	(1.0) _____
0835.263	Scuba Diving	(1.0) _____
0835.276	Intermediate Modern Dance I	(1.0) _____
0835.277	Intermediate Modern Dance II	(1.0) _____

Non-major students may apply for credit by examination for prior experience or skill by contacting the Chairperson for University and departmental procedures.

Elementary Education — Physical Education Division

0835.281-282 PHYSICAL EDUCATION FOR ELEMENTARY EDUCATION STUDENTS I, II (1, 1) The course is designed for the teacher of elementary school children to gain an understanding of and develop a basic ability in the basic skills of children's activities. The course provides opportunity to become familiar with methods of learning skills and to appreciate the needs of the individuals in motor learning and analysis of group behavior. Prerequisites to 0835.324.

0835.324 Special sections of The Teaching of Physical Education in the Elementary School may be selected by students in the elementary education block program. The course is designed to give the student knowledge and practical experience in teaching the elementary child. Prerequisites: 0835.281-282.

Program for Physical Education Majors

Students may select a major in physical education. The purpose of the major is to prepare competent teachers of physical education for the public schools of Maryland. Graduates are certified to teach at the elementary and secondary level. A planned sequence of courses is designed to provide the student with skills and leadership experiences needed to direct a balanced program in class, intramural and extramural activities, and varsity sports.

Departmental Office

Building — TC
Room — 205
Phone — 321-2376

BACHELORS DEGREE — PHYSICAL EDUCATION

Requirements

Major — total — 52-53

PROFESSIONAL THEORY

0835.299	Overview of Physical Education	(2) _____
0835.303	Organization & Administration	(3) _____
0835.309	Tests & Measurements	(3) _____
0835.311	Kinesiology	(4) _____
0835.313	Physiology of Exercise	(3) _____
0835.315	Care & Prevention of Athletic Injury	(2) _____
0835.324	Teaching Physical Education in Elementary School	(3) _____
0835.325	Teaching Physical Education in Secondary School	(3) _____
0835.423	Adapted Physical Education	(3) _____

PROFESSIONAL LABORATORY SKILLS

Professional laboratory skill courses (111-284) provide instruction in the basic activities appropriate for a teacher of physical education, including acquisition of skills and methods of instruction. Courses are required in the following categories:

Team Sports — three courses

Individual/dual activities — five courses

Aquatics — two courses (according to placement test)

Dance — two courses

Elementary Activities — two courses

Course outlines and prerequisites are available in the Department of Physical Education office.

0835.111	Archery I	(0.5)_____
0835.123	Backpacking I	(1.0)_____
0835.113	Badminton I	(0.5)_____
0835.201	Baseball I	(0.5)_____
0835.203	Basketball I	(0.5)_____
0835.118	Body Mechanics	(0.5)_____
0835.119	Bowling I (0.5)	(0.5)_____
0835.121	Conditioning I	(0.5)_____
0835.125	Fencing I	(0.5)_____
0835.207	Field Hockey I	(0.5)_____
0835.209	Football I	(0.5)_____
0835.127	Golf I	(0.5)_____
0835.129	Gymnastics I (tumbling)	(0.5)_____
0835.130	Gymnastics II (apparatus)	(0.5)_____
0835.215	Lacrosse I	(0.5)_____
0835.176	Modern Dance for Majors I	(0.5)_____
0835.143	Self Defense I	(0.5)_____
0835.221	Soccer I	(0.5)_____
0835.223	Softball I	(0.5)_____
0835.160	Swimming (swimming courses according to placement test)	(1.0)_____
0835.147	Tennis I	(0.5)_____
0835.149	Track & Field I	(0.5)_____
0835.228	Volleyball I	(0.5)_____
0835.151	Wrestling	(0.5)_____
0835.279	Techniques of Teaching Creative Movement	(1.0)_____
0835.283	PHEC Activities for the Young Child (K-3)	(1.0)_____
0835.284	PHEC Activities for the Intermediate Grades (4-6)	(1.0)_____

ELECTIVES: Fifteen (15) credits in Physical Education Theory and Professional Laboratory Skill Courses from the remaining courses available in the Department are required.

CERTIFICATE REQUIREMENTS

0401.101	Biological Science	(4)_____
1902.101	Physics B	(5)_____
1201.101	Current Health Problems	(3)_____
2001.201	Educational Psychology	(3)_____
0401.113	Human Anatomy & Physiology I	(4)_____
0401.114	Human Anatomy & Physiology II	(4)_____
0803.319	Survey of Education	(3)_____
0801.401	Foundations of Education	(3)_____

MINOR REQUIREMENTS:

no minor available in Physical Education

STATEMENT ON TRANSFER CREDIT POLICY:

Physical Education transfer credits will be evaluated by the department.

PHYSICAL EDUCATION (0835)

0835.010-095 — These courses include a variety of skills courses for non-majors. For specific titles, credits, descriptions, and prerequisites, consult Physical Education Department.

0835.111-284 — These courses include a variety of professional lab skills for majors and team sports for both majors and non-majors. For specific titles, credits, descriptions, and prerequisites, consult Physical Education Department.

0835.196, 296, 396, 496 (60.196, 296, 396, 496) **INDEPENDENT STUDY (.5-3)** Course is designed to permit students to take courses which they cannot arrange within the regular

semester schedule. All work will be under the direct supervision of an assigned faculty. No more than 3.0 credits may be earned in Independent Study unless the permission of the Department Chairperson is obtained. Prerequisites: Consent of Department Chairperson. (Undergraduate credit only)

0835.245 **CAMP LEADERSHIP (2)** The role of the camp counselor in organized camping. Emphasis on camp related skills of campcraft, trips, crafts and nature study. Several field trips.

0835.247 **OFFICIATING I (2)** A study of the art of officiating through lectures, films, discussions, and practical application. Covers the sports of swimming, volleyball, wrestling, football, basketball, and field hockey. Open to majors and non-majors.

0835.248 **OFFICIATING II (2)** A study of the art of officiating through lectures, films, discussions, and practical application. Covers the sports of track, softball, lacrosse, baseball, tennis and gymnastics. Open to majors and non-majors.

0835.299 **OVERVIEW OF PHYSICAL EDUCATION (2)** A brief history of physical education emphasizing the place of physical education in education today, identification of leaders in the field, the role of professional ethics and standards, professional organizations (their purpose and function), and an introduction to professional literature.

Upper Division — Undergraduate

0835.301 **RECREATION (3)** Preparation for leadership and organization of after-school activities for children, such as club, hiking, camping and playground activities. Visits to recreation centers. Specialists in story telling, crafts, recreational singing, playground and club work give part of the course. Participation in some organized recreation with children.

0835.302 **CURRICULUM IN PHYSICAL EDUCATION (3)** Physical education as a part of general education, aims and content. Principles for development of a sequential physical education curriculum in grades one through twelve. Prerequisite: 0835.299, 2001.201. Approved Group IV-C — College-level writing course for Physical Education majors.

0835.303 **ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION (3)** The course is designed to provide experiences for the student in administrative problems and procedure from the perspective of the administrator and to also present the learner with knowledge of the administrative responsibilities associated with the role of the physical education teacher. Prerequisites: 0835.299.

0835.305 **OUTDOOR EDUCATION: PHILOSOPHY AND METHODS (3)** An examination of the rationale and basic structure of outdoor education programs. An investigation of effective teaching techniques and procedures for outdoor education. Field experiences are required (students may have to provide their own transportation and equipment). The course will utilize an interdisciplinary approach and be team taught. Prerequisites: Jr/Sr standing and one of the following: 0835.324, 0835.325 or Education Methods courses.

0835.307 **TEACHING APPRENTICESHIP (.5-1)** A student with a high degree of competency may request to be assigned to assist a faculty master teacher in class instruction and evaluation. Approval of the chairperson of Physical Education, the Director of Major Program and the faculty member concerned are required. This course may be repeated once. Prerequisites: Junior-senior major; ad-

vanced skill level; approval of chairperson of Physical Education, Director of Major Program and faculty member concerned.

0835.309 **TESTS AND MEASUREMENT IN PHYSICAL EDUCATION (3)** Background for development of measurement programs in physical education; elementary statistical procedures; interpretation of data; selection and administration of tests measuring fitness, motor ability, and sports skills applicable to various grade and age levels.

0835.311 **KINESIOLOGY (4)** Mechanical and anatomical analysis of movement in relation to human performance. Three lecture hours and two hours of laboratory experience. Prerequisites: Phys 1902.101, Biology 0401.113-114.

0835.313 **PHYSIOLOGY OF EXERCISE (3)** Application of principles of physiology to large muscle activity, with special emphasis on the interrelations of muscular, nervous, circulatory, and respiratory functions during exercise. Prerequisite: Biology 0401.113-114.

0835.315 **CARE AND PREVENTION OF ATHLETIC INJURIES (2)** Theoretical and practical methods of preventing and treating athletic injuries; techniques of taping and bandaging; emergency first aid; massage; use of physical therapy modalities. Prerequisite: Biology 0401.113-114.

0835.324 **TEACHING PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL (2-3)** Responsibilities of the elementary school physical education teacher including class organizational procedures, a variety of teaching methods, lesson and unit plan development and content appropriate for the elementary school child. Course includes observation and teaching experiences with elementary school children at various ages. Prerequisites: 0835.299, 0835.283, 0835.284.

0835.325 **TEACHING PHYSICAL EDUCATION IN SECONDARY SCHOOLS (3)** Responsibilities of the secondary school physical education teacher, including class organizational procedures, a variety of teaching methods, lesson and unit planning, and topics resulting from the observation/participation experience in a secondary school. Prerequisites: 0835.299, professional laboratory skills in team and individual sports.

0835.331 **PRINCIPLES OF COACHING (3)** A course designed to develop within each student an educationally sound philosophy of coaching. The emphasis will be on learning and understanding the principles and guidelines of good coaching and the application of the human psychology as it relates to the coach and athletes in their unique relationship. Prerequisites: 2001.101 and 2001.201 or consent of instructor.

0835.341 **CONCEPTS OF MOTOR LEARNING (3)** An upper level course designed to study the effects of psychological correlates including kinesthesia, reaction time, feedback, perception, retention, transfer, mental practice and motivation on human learning. Prerequisites: 2001.101 and 2001.201.

0835.351 **PHILOSOPHY OF PHYSICAL EDUCATION AND SPORT (3)** An upper level course which explores the philosophical foundations of physical education and the philosophy of sport and the body. Includes the major philosophical schools of thought and their impact on physical education. Translate philosophic thought into practical application of teaching. Prerequisites: 0835.299 or consent of instructor.

0835.353 **SOCIOLOGY OF SPORT (3)** An upper level course which explores the interaction and relationships between sport and society. Explore, describe and explain

relationships between sport and social units, social institutions, social processes. Study the role of sport in various cultures with special emphasis on American society. Prerequisites: 0835.299 or consent of instructor. Approved Group IV C-College-level writing course, for Physical Education majors.

0835.355 **PSYCHOLOGY OF SPORT (3)** This course is designed to study the psychological correlates of sport. The approach will be one of understanding and application of the literature and research design of sport psychology publications. Prerequisites: Psychology, 2001.101.

0835.361 **HISTORY OF THE DANCE (3)** An overview of dance history through the ages from its tribal beginnings to the present day. Prerequisites: Junior standing or consent of instructor.

0835.363 **MODERN DANCE COMPOSITION (3)** Approaches to composition through short studies directed toward a feeling of phrasing and form in dance. To be offered as an elective for the physical education major or for any interested student. Prerequisite: Approval of instructor.

0835.365-366 **CHOREOGRAPHIC PROBLEMS I, II (3, 3)** Studies on the intermediate level using Pre-Classic forms and modern idioms of dance. Problems involved in choreographing for solo, duet, and small group dances. Prerequisite: 0835.363.

0835.371 **INTERMEDIATE BALLET I (1)** An intermediate level technique course in classical ballet. Prerequisite: 0835.075 or 175 or consent of instructor.

0835.372 **INTERMEDIATE BALLET II (1)** An intermediate level technique course in classical ballet. Prerequisite: 0835.371.

0835.374 **ADVANCED BALLET I (1)** An advanced level technique course in classical ballet. Prerequisite: 0835.372 or consent of instructor.

0835.375 **ADVANCED BALLET II (1)** An advanced level technique course in classical ballet. Prerequisite: 0835.374.

0835.376 **ADVANCED MODERN DANCE I (1)** An advanced level modern dance technique course. Prerequisite: 0835.277 or consent of instructor.

0835.377 **ADVANCED MODERN DANCE II (1)** An advanced level modern dance technique course. Prerequisite: 0835.376.

0835.378 **JAZZ DANCE II (1)** A study of contemporary Jazz Dance technique from Rock to Funky Jazz, including projections for the future. Prerequisite: 0835.078 or 178 or consent of instructor.

0835.380 **POINTE TECHNIQUE I (1)** Basics of pointe (toe) work essential to the student whose interest is in total comprehension of the elements necessary to the performance of classical ballet. Prerequisite: 0835.371-372, or concurrent with 0835.372.

0835.381 **POINTE TECHNIQUE II (1)** Continuum of 0835.380 with emphasis on tempi, allegro combinations, enchainements au milieu, and barre supported adage. Prerequisites: 0835.380.

0835.397 **PRACTICUM IN CAMPING OR OUTDOOR EDUCATION (3)** A course designed to allow academic and practical experience for students in the camp program or outdoor education area of their choice. The student will participate as a volunteer, aide, or staff member. Seminars will be held to discuss experiences. Students should expect to pay for their transportation, meals, and lodging during the practicum experience. The course will be offered primarily during the minimester and summer ses-

sions. Prerequisite: 0835.245 or 0835.305 or consent of instructor.

0835.399 DIFFERENTIATED STUDENT TEACHING IN PHYSICAL EDUCATION (1 or 2) An additional experience in student teaching in addition to the regular student teaching experience.

0835.403 ORGANIZATION AND ADMINISTRATION OF INTRAMURALS (3) Course designed to permit the graduate and undergraduate student to acquire the skills of administration necessary in the development and organization of intramural programs in schools and colleges.

Upper Division — Undergraduate and Graduate

0835.412 THEORY AND ANALYSIS OF GYMNASTICS MOVEMENT (3) Theoretical and practical application of mechanical analysis of movement concepts as related to proper execution of skills in gymnastics: The techniques and methods used in this course are designed to provide the teacher a logical system for presenting gymnastic skills to facilitate learning for the student; to demonstrate that gymnastic skills are logically founded on basic physics or terrestrial mechanics; to present aiding and spotting techniques.

0835.415 ADVANCED CARE AND PREVENTION OF ATHLETIC INJURIES (2) Lecture and Laboratory experience in the study of advanced theories and principles of athletic training. This includes advanced taping techniques, rehabilitative procedures, emergency field procedures. Prerequisites: 0835.315 or equivalent, or consent of instructor.

0835.419 SWIMMING AND POOL MANAGEMENT (3) An advanced course in teaching methods for all levels of swimming and diving. Modern methods of training the competitive swimmer with emphasis on technique and conditioning of the individual. The organization and administration of swimming pools and clubs with regard to staff, recreation and pool filtration. This is a certificate course for pool management, approved by the Department of Health, Baltimore County. Prerequisite: 0835.261 and 0835.262.

0835.421 PHYSICAL EDUCATION PROGRAM IN THE ELEMENTARY SCHOOLS (3) A study of current trends and issues in curriculum development, methods and materials and research concerned with elementary school physical education programs. Prerequisite: 0835.324.

0835.423 ADAPTIVE PHYSICAL EDUCATION (3) Recognition of pupils with physical deviations, and use of special or modified physical education activities. Prerequisites: 0835.311, 0401.113-114.

0835.425 TEACHING DANCE IN GRADES K-12 (3) A teacher-directed approach to the exploration of methods and materials available for the teaching of multiple dance forms. Prerequisite: 0835.279, 2 or more credits in dance technique courses, or consent of instructor.

0835.427 PERCEPTUAL-MOTOR DEVELOPMENT IN PHYSICAL EDUCATION (3) The purpose of the course is to provide the teacher of physical education with a basic knowledge of the area of Perceptual-Motor Development. The following areas will be examined: Perceptual-Motor Programs and Theories, Perceptual-Motor Testing Programs, Related Research, Sensory Input and Motor Output. Prerequisite: 0835.324.

0835.430 MOVEMENT EDUCATION IN THE ELEMENTARY SCHOOL (3) Application of problem solving and individualized methods of teaching of movement for the elementary school child. Development of programs and materials for teaching creative dance, games, and sports. Survey of current literature.

0835.441 THE SPORTSWOMAN IN AMERICAN SOCIETY (3) The purpose of this course is to examine the American woman in sport. Literature from the historical, physiological, sociological, psychological and philosophical perspective will be reviewed. Concepts revealed will be contrasted with myths about and societal attitudes toward women who participate in sport. Prerequisites: 0835.302 and 303, or permission of instructor.

0835.451 PERSPECTIVES IN AMERICAN SPORT (3) Explores sport in American society from a historical perspective. It includes major patterns of growth and role of sports in American society. Emphasis is on methods of historical research and critical analysis of the discipline of sport history. Prerequisites: 0835.299 or consent of instructor.

0835.453 ORGANIZATION AND ADMINISTRATION OF ATHLETICS (3) Designed to aid those persons responsible for organizing and administering intramural and inter-school athletic programs. Topics such as organizational patterns, objectives of the programs, controls, game management, records, conduct of tournaments, officials, awards, and means of promoting the programs will be considered. Study will be made of competitive as well as informal recreation programs on all educational levels, with special emphasis on the secondary schools. Prerequisite: Upper division standing in Physical Education or Coaching or Administrative Experience.

0835.461-462 CHOREOGRAPHY I, II (3, 3) Choreographic studies on the advanced level using sonata, rondo, and fungue forms. Elements of performance. Choreography, staging, costumes, and presentation of a group dance. Prerequisite: 0835.366.

0835.470-479 SELECTED TOPICS IN PHYSICAL EDUCATION (1-3) Workshop designed for study of special topics of current interest in physical education and athletics. Content varies and will focus on substantive material or operational problems. Prerequisite: Consent of workshop director and/or graduate coordinator.

0835.494 TRAVEL STUDY (3) Study of selected physical education programs, practices, or facilities. Study group will be accompanied by TSU Physical Education Department faculty member. Prerequisite: As specified in course outline and consent of instructor.

Graduate Division

***0835.509 PSYCHOLOGY OF MOTOR LEARNING (3)** Investigation of the various psychological factors that affect the acquisition of motor skills. Emphasis will be focused on teaching and practice methodology, motivational factors, learning theories, physical and motor considerations, anxiety, stress, tension, competition, mental practice, transfer of training, level of aspiration, etc. Prerequisite: Bachelor's degree with a major in Physical Education.

***0835.512 SIGNIFICANT PERIODS IN PHYSICAL EDUCATION (3)** An examination of the influence of Greek, Roman, European and English concepts of physical education upon American physical education. Emphasis on the formation and development of American concepts of physical education. Prerequisite: Consent of graduate coordinator.

***0835.513 ANALYSIS OF PHYSIOLOGICAL CONCEPTS (3)** Analysis of research and laboratory application of the physiological factors that affect human efficiency before, during and after exercise. Factors to be investigated include: metabolism, circulation-respiration, muscular physiology, endocrine system, ergogenic aids, environmental factors, etc.

*0835.521 EDUCATIONAL GYMNASTICS (3) Analysis of theoretical and historical basis for use of problem-solving and individualizing methods in teaching gymnastic movement. Development of programs and materials for a variety of developmental levels. In-depth review of literature. Prerequisite: Undergraduate major in physical education with bachelors degree.

*0835.530 MECHANICAL ANALYSIS OF MOVEMENT (3) Various basic mechanical principles are analyzed as they relate to efficient human movement. The physical laws to be studied are leverage, motion, projectiles, gravity, buoyancy and equilibrium. The design of the course will be research oriented. Prerequisites: 0835.311 and an undergraduate major in physical education or consent of the graduate coordinator.

*0835.533 ADMINISTRATION AND SUPERVISION OF PHYSICAL EDUCATION (3) Designed to acquaint the student with the scope, problems and techniques of administering and supervising a program of physical education. The work of the chairperson of the department, problems of personnel, program, facilities, and evaluation will be discussed. Prerequisite: Undergraduate degree in Physical Education and consent of graduate coordinator.

*0835.539 CRITICAL ANALYSIS OF CURRENT LITERATURE IN PHYSICAL EDUCATION (3) Designed to facilitate the depth and quality of the knowledge of students, teachers, administrators, supervisors and research personnel in their assessment and investigation of the following aspects of the physical education profession: contemporary leaders, books, journals, periodicals, projects, trends, issues, innovations, etc. Prerequisite: Undergraduate degree in physical education or consent of graduate coordinator.

*0835.541 EVALUATIVE TECHNIQUES IN PHYSICAL EDUCATION (3) Designed primarily to develop analytical ability in the administration, assessment and interpretation of test results. Research and laboratory application involves the evaluation of measurements of classification indexes, power, agility, motor ability, balance, flexibility,

kinesthetic perception, speed and recreation time, strength, muscular endurance, cardiovascular condition, sport skills, etc. Prerequisite: Undergraduate major in physical education or consent of graduate coordinator.

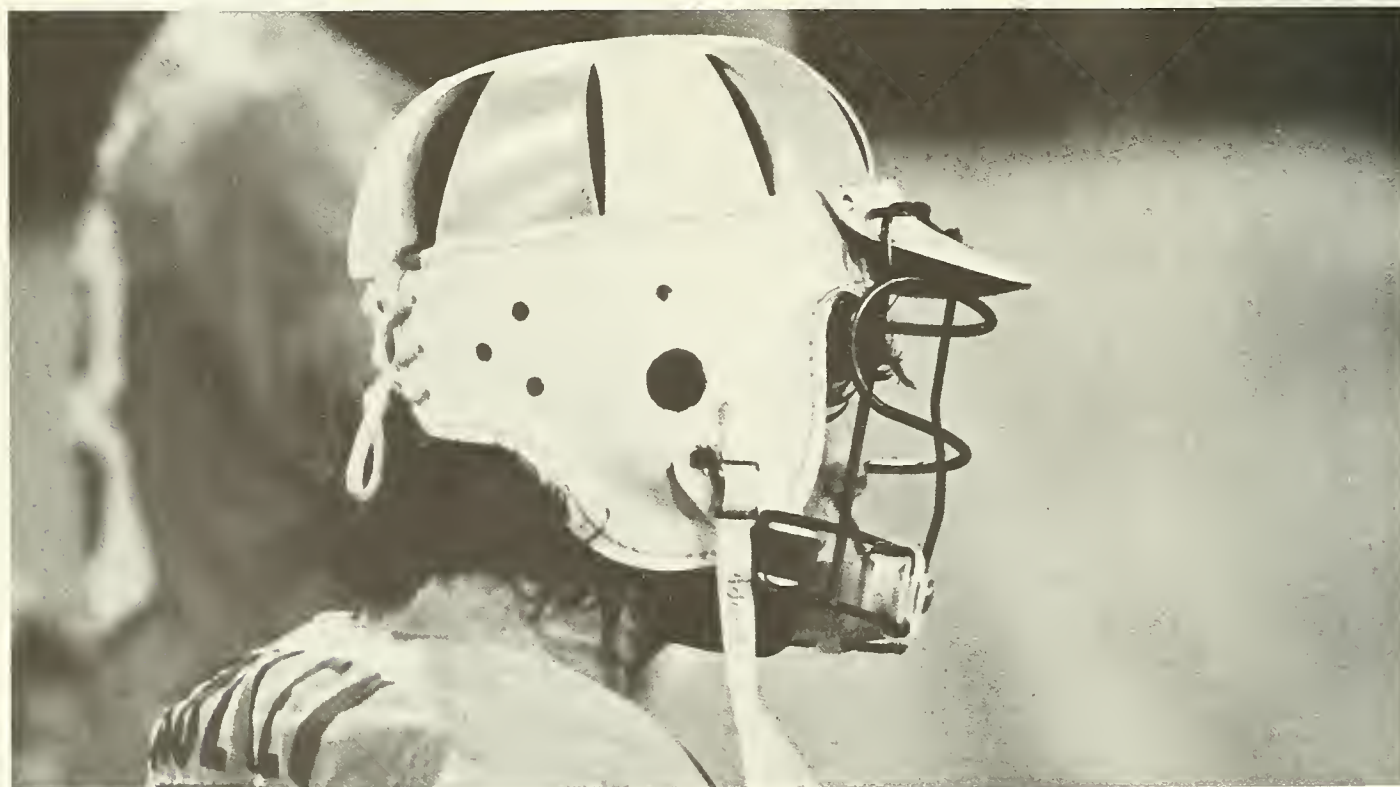
*0835.545 FACILITIES AND EQUIPMENT FOR PHYSICAL EDUCATION (3) Designed to cover the principles of programming and planning facilities for physical education. Indoor and outdoor activity areas will be studied as well as their maintenance. Procedure related to selection, purchase and care of equipment will be included. Prerequisite: Undergraduate degree with a major in physical education or consent of the graduate coordinator.

*0835.551 COMPARATIVE PHYSICAL EDUCATION — CONTEMPORARY AND INTERNATIONAL (3) A comparative analysis of contemporary patterns of physical education in selected countries throughout the world. Prerequisite: Undergraduate major in physical education or consent of the graduate coordinator.

*0835.553 CONTEMPORARY PHYSICAL EDUCATION CURRICULUM (3) Curriculum design for elementary and secondary school physical education. Examination of current literature pertinent to aims, objectives, content, and method of physical education. Prerequisites: Teaching experience, undergraduate physical education major or consent of graduate coordinator.

*0835.585 RESEARCH SEMINAR (3) Research on a project of particular significance to the individual through consultation with designated faculty members. Focus will be on the proper structural format for project or thesis formulation. Prerequisites: Educ 0801.691 as well as an undergraduate major in physical education and consent of graduate coordinator.

* All students, equivalency and degree candidates, must have Graduate Standing to take 500 level courses. See Graduate Studies Catalog for admission requirements. ALL SECONDARY DEGREE CANDIDATES WITH AN EMPHASIS IN PHYSICAL EDUCATION MUST HAVE COURSE SELECTIONS APPROVED BY THE GRADUATE COORDINATOR. Specific prerequisites are listed with each course description.



Physics

Professors: BAREHAM, NEWMAN, PELHAM, RUBENDALL
LOH (Chairperson)

Associate Professors: HUANG, JOHNSON, MOOREFIELD,
MOLITOR, UKENS

Assistant Professors: CHEN, GREENE, KREISEL, LARSEN,
BATES, KRAUSE

Instructors: WESSNER

Assistant Instructor: TASSI

The Physics Department offers two major programs, physics and natural science; a minor in physics, and a minor in geology. The department also offers a physics-engineering dual program in cooperation with the University of Maryland School of Engineering. In addition, many courses are applicable to a Thematic Option in Environmental Studies and service courses are offered in liberal arts' physical science, physics, and science education.

Physics/Physics Teaching Major

The Physics Department offers two undergraduate programs leading to a Bachelor of Science or Arts degree in Physics: one is the physics major program and the second is the physics teaching major program. The physics major program is designed to give the greatest possible flexibility as preparation for graduate study in physics, astrophysics, medicine, engineering or other allied fields and for professional practice (as a physicist in industrial, governmental or institutional laboratories). The physics teaching major program is designed for those students planning to be physics teachers in secondary schools.

In order to provide students a broad and solid base in physics and also to provide the flexibility which enables the student to take courses in areas where physics can be applied, all physics majors take a series of basic physics core courses. The first course is general physics (1902.221 and 222). It provides an introduction to both classical and modern development of physics. The junior and senior core physics courses treat the various areas of classical and modern physics in greater depth. Physics and other electives taken during junior and senior years allow the student to select a program to fit their own individual requirements whether to pursue graduate studies or to participate in fundamental or applied research in industrial or governmental laboratories. It is recommended that those who intend to pursue graduate studies in physics take additional physics and mathematics courses. Students may wish to elect some foreign language also as preparation for graduate study. Physics students are encouraged to participate in research programs of the Department. In addition to physics courses all majors are required to complete courses in mathematics, chemistry and biology. Physics teaching majors are required to complete 22 credits in education courses in order to meet requirements for teacher certification in Maryland and many reciprocity states.

Students who intend to be physics majors should contact the Physics Department in order to be assigned a faculty advisor. The faculty advisor will assist students in planning a program which will meet their special needs and is also available for advising on career opportunities and employment. Physics majors are required to complete 12 credits of upper division physics courses at this Uni-

versity. Students should be aware that most advanced physics courses (300 and 400 level) may be offered in either the first semester or the second semester, but not in both semesters. Some physics electives are only offered every other year (the advisors will have information on the courses offered).

Physics Honors Program: Students with demonstrated ability will be invited by the Department to participate in this program. Such persons will work closely with faculty members in a tutorial type of relationship and participate in an individualized program of research, directed reading, independent study, and seminar. The student who completes an approved program will receive a diploma with the designation of Bachelor of Arts or Bachelor of Science with Honors, and Departmental Honors will also appear on the transcript.

Departmental Office

Building — SM

Room — 457

Phone — 321-3137

PHYSICS MAJOR

Required Physics courses (33 credits):

1902.221-222	General Physics I, II	(4, 4) _____
1902.301	Mechanics	(4) _____
1902.305	Electricity and Magnetism	(4) _____
1902.311	Modern Physics	(4) _____
1902.321	Introductory Mathematical Physics	(3) _____
1902.381-382	Intermediate Physics Laboratory I, II	(2, 2) _____
1902.401	Physics Seminar	(1) _____
	Physics Electives (300 or level)	(5) _____

Non-Physics requirements (24 or 23 credits):

1701.273	Calculus I	(4) _____
1701.274	Calculus II	(4) _____
1701.373	Calculus III or 300 or 400 level Mathematics	(4) _____ (3) _____
0401.101	Contemporary General Biology	(4) _____
1905.101-102	General Chemistry I, II	(4, 4) _____

PHYSICS TEACHING MAJOR

Required Physics courses (28 credits):

1902.221-222	General Physics I, II	(4, 4) _____
1902.301	Mechanics	(4) _____
1902.305	Electricity and Magnetism	(4) _____
1902.311	Modern Physics	(4) _____
1902.321	Introductory Mathematical Physics	(3) _____
1902.381-382	Intermediate Physics Laboratory I, II	(2, 2) _____
1902.401	Physics Seminar	(1) _____

Non-Physics requirements (20 credits):

1701.273-274	Calculus I, II	(4, 4) _____
0401.101	Contemporary General Biology	(4) _____
1905.101-102 or	General Chemistry I, II or	(4, 4) _____
1905.103-104	General Chemistry for Majors I, II	

Required professional courses (23-26 credits):

2001.201	Education Psychology	(3) _____
0803.341	Principles of Secondary Education*	(3) _____
0834.380	Teaching Science in Secondary School*	(3) _____
0601.369	Laboratory in Educational Media**	(1) _____
0834.421	Field Course in Secondary Science Teaching Methods**	(2) _____

0803.398 (399)	Student Teaching (Differentiated)	(10-13)_____
0801.401	Foundations of Education	(2)_____

*Course to be taken prior to student teaching

**Course taken concurrent with student teaching at teaching center

A Suggested Schedule for Physics Majors and Physics Teaching Majors

FIRST YEAR

First Semester		Credit Hours
1905.101	Chemistry	4
1701.115	Mathematics	3
or 119		
1501.102	English	3
or 104		
*Electives from General University Requirements		6
		16

Second Semester		Credit Hours
1905.102	Chemistry	4
1701.116	Mathematics	3 or 4
or 273		
English Elective		3
**Electives from General University Requirements		6
		16 or 17

SECOND YEAR

First Semester		Credit Hours
1902.221	Physics	4
1701.273	Mathematics	4
or 274		
0401.101	Biology	4
Electives from General University Requirements		3 or 4
		15 or 16

Second Semester		Credit Hours
#1902.222	Physics	4
1701.274	Mathematics or Elective	4 or 3
Electives from General University Requirements		6 or 9
		16

THIRD YEAR

First Semester		Credit Hours
1902.321	Introductory Mathematical Physics	3
1902.311	Modern Physics	4
1902.381	Intermediate Physics Laboratory I	2
1701.373	Mathematics or Elective	4
Electives from General University Requirements		3
		16

Second Semester		Credit Hours
1902.305	Electricity and Magnetism	4
1902.301	Mechanics	4
1902.382	Intermediate Physics Laboratory II	2
***Physics Electives		4
		14

FOURTH YEAR

First Semester		Credit Hours
***Physics and Other Electives		13
		13

Second Semester		Credit Hours
1902.401	Physics Seminar	1
***Physics and Other Electives		13
		14

#Students with sufficient background in mathematics should take General Physics in Freshman Year.

*Students with limited background in physics are advised to take Physics 1902.100.

**Students are recommended to take Computer Science 0701.235.

***Physics Teaching Majors are not required to take any physics electives. Regular Physics Majors are required to complete 5 credits of physics electives. Both majors are recommended to take as much physics mathematics as possible.

Special schedules can be arranged for students with advanced preparation in mathematics. Students in Dual-Degree Program should consult Dual-Degree Brochure for a suggested schedule.

NATURAL SCIENCE MAJOR

This program is designed to give a broader view of the sciences than is obtained in a traditional undergraduate major in a single science. This is done at the sacrifice of depth and students should therefore be aware that this major may not prepare them for graduate work in a single science.

Prospective secondary or middle school teachers of general science should consider this major. These students should plan their programs to meet the certification requirements of the area in which they plan to teach.

Students who intend to be natural science majors should see D. Greene early in their education at this college.

Natural Science Major (54 credits)

Required courses (30 credits):

0401.101	Contemporary General Biology	(4)_____
1905.101-102	General Chemistry I, II	(4,4)_____
1902.211-212	General Physics I, II	(4,4)_____
1901.121	Physical Geology	(4)_____
1901.161	General Astronomy I	(3)_____
1701.115	Mathematics I	(3)_____

One from each of the following groups (9-12 credits):

0401.105 or	General Botany, or	(4)_____
0401.109	Functional Anatomy or Vertebrates	(4)_____
1905.210 or	Principles and Methods of Chemical Analysis, or	(4)_____
1905.211 or	Quantitative Analytical Chemistry, or	(4)_____
1905.330	Essentials of Organic Chemistry	(5)_____
0401.295 or	Course Research, or	(1)_____
0401.491 or	Independent Research in Biology, or	(2-3)_____
1901.401	Advanced Laboratory in Physical Science	(2)_____

Electives (12-15 credits):

One field course is required.

Other electives from the biological and physical sciences (upper division courses recommended).

PHYSICS MINOR

Required Physics Courses (20 credits):

1902.221-222 or	General Physics I, II	(4,4)_____
1902.211-212		
1902.301	Mechanics	(4)_____
1902.311	Modern Physics	(4)_____
Electives from other upper division physics courses		(4)_____

GEOLOGY MINOR

This minor is intended primarily to serve students with majors in Geography, Natural Science, Biology, Chemistry, or Physics who may wish to obtain additional background in geological sciences as an aid to pursuing fields related to land use, environmental sciences, geochemistry, geophysics, or general science and earth science teaching in the secondary schools.

Students intending to elect a geology minor should see Bareham or Molitor.

Required geology courses (18 credits):

1901.121	Physical Geology	(4)_____
1901.171	Historical Geology	(3)_____
1901.222	Geomorphology	(3)_____
1901.331	Mineralogy	(4)_____
1901.333	Petrology of Igneous and Metamorphic Rocks	(4)_____

Electives (6 credits):

1901.322	Geomorphology of the Eastern United States	(3)_____
1901.443	Sedimentology and Sedimentary Petrology	(3)_____
0401.307	Introduction to Paleontology	(3)_____

Dual-Degree Program in Engineering

In this program the student spends three years at Towson and two years at the University of Maryland School of Engineering to receive two bachelor's degrees. One from Towson in Physics, and one from the Aerospace, Fire Protection, or Civil Engineering. For further information about this program see "Engineering" in the College Curriculum Section of this catalog.

PHYSICS COURSES (1902)

Lower Division — Undergraduate

1902.100 UNDERSTANDING PHYSICS (3) A descriptive course for the general student which examines and explains ordinary events using a framework provided by the concepts and methods of physics. Present day physics will be included. Demonstrations and short illustrative experiments will be a part of the course. Three lecture hours.

1902.101 GENERAL PHYSICS B (5) One semester General Physics with special emphasis on motion including kinematics and dynamics of linear and angular motion.

1902.131 LIGHT AND COLOR (3) Some aspects of light and color and of vision will be examined on a factual and descriptive basis. Predominantly qualitative explorations will be made of the origin of light, of its wave and particle behavior, of the polarization of light, of lasers and holography, of the origin and physical basis of color, and of the physics of vision. This course in liberal arts physics is offered for curious inquirers who have had minimal contact with physics. Three lecture hours.

1902.141 PHYSICS OF SOUND AND MUSIC (3) Study of sound and its production by various instruments, the human voice included. Physical interpretations will be given of concepts such as noise, pitch, loudness, harmonics and timbre, scales and temperament, etc. Other topics to be treated include: the mechanics of the inner ear, acoustics, electronic production and reproduction.

1902.211-212 GENERAL PHYSICS I, II (4, 4) For Arts and Science, Biology, and Natural Science Majors: Mechanics, heat, light, electricity, magnetism and a brief introduction to modern physics. Three lecture hours and one three-hour laboratory period. Prerequisite: MATH 1701.115, or good standing of high school algebra and trigonometry.

1902.221-222 GENERAL PHYSICS I, II (4, 4) For Chemistry, Mathematics, and Physics Majors: Mechanics, heat, light, electricity, magnetism and a brief introduction to modern physics. Three lecture hours and one three-hour laboratory period. Prerequisite: MATH 1701.273 or concurrently.

1902.295 COURSE RESEARCH IN 200-LEVEL COURSES (1)

Upper Division — Undergraduate and Graduate

1902.301 MECHANICS (4) Systems of coordinates and kinematic components of motion; Newtonian dynamics of particles and linear systems, including planetary motion and oscillations in damped and undamped systems; virtual work; generalized coordinates and Lagrange's equations; Hamilton's principle with elementary applications of least action, varying action and the canonical equations. Some nonlinear effects will be introduced. Four lecture hours. Prerequisites: PHYS 1902.222 or 1902.212, MATH 1701.274.

1902.302 THERMODYNAMICS AND KINETIC THEORY (3) Principles and laws of classical thermodynamics applied to simpler irreversible processes, including chemical, elastic, electric and magnetic phenomena; thermodynamic functions and Maxwell's relations; the conservation equations in elementary kinetic theory; fluctuations; and irreversible transfer effects. This course may be taken concurrently with PHYS 1902.212 or 1902.222 by permission. Three lecture hours. Prerequisites: PHYS 1902.212 or 1902.222, MATH 1701.274.

1902.305 ELECTRICITY AND MAGNETISM (4) Theorems of Gauss and Stokes as applied to electrostatics and magnetostatics; diamagnetism and paramagnetism; steady and transient current effects; alternating currents; conduction in gases, photoelectricity; and electron theories of solid state phenomena; the classic treatment of Maxwell-Lorentz electromagnetic and propagation effects. And possibly the following topics will be included: the special theory of relativity; introduction to microwaves and wave guides; plasma physics and magnetohydrodynamics. Four lecture hours. Prerequisites: PHYS 1902.212 or 1902.222, MATH 1701.274.

1902.311 MODERN PHYSICS (4) The specific details of this course will be changed from time to time as necessitated by student interests and needs. In general, the intermediate principles and applications of relativity, quantum physics, elementary particles, nuclear physics and solid state theory will serve as the foundation for additional specialized developments of current interest. Four lecture hours. Prerequisites: PHYS 1902.222 or 1902.212, MATH 1701.274.

1902.313 HISTORY AND PHILOSOPHY OF PHYSICS (2) The works of Sarton, Cohen, Singer and Dampier on the history and significance of physical concepts. The philosophical concepts of Bridgeman, Russell, Heisenberg and other contemporaries interpreted in the historical development. Two lecture hours.

1902.315 MATHEMATICS OF MOTION (4) This course, intended to meet the needs of mathematics major students, illustrates the application of mathematics to major physical phenomena: the particle and wave nature of motion. The methods developed are applicable to both the macrocosm and microcosm. Prerequisites: 0701.235, 1701.273 and 1701.274.

1902.321 INTRODUCTORY MATHEMATICAL PHYSICS (3) As the mathematical maturity of the students will allow, selected topics will be examined such as the generalized expressions for forces and potentials, vector analysis, applications of Fourier series and complex variables, and solutions of the harmonic oscillator and wave equations. Three lecture hours. Prerequisites: 1902.222 or 1902.212, 1701.373 or concurrently.

1902.331 MECHANICS II (4) Continuation of 1902.301. Inertia and stress tensors; continuum mechanics; rotation of a rigid body; theory of small vibrations; basic postulates of the special theory of relativity; relativistic dynamics; lattice vibrations. Other special topics of advanced mechanics. Prerequisites: 1902.301 and 1902.321.

1902.335 **BASIC ELECTRONICS (4)** Circuit components, characteristics of semi-conductors, electrical measurements, method of circuit analysis, electronic devices. Three lecture hours and one three-hour laboratory period. Prerequisite: 1902.212 or 1902.222 or consent of instructor.

1902.337 **DIGITAL ELECTRONICS (4)** Subjects covered will be basic concepts of digital electronics such as: gates, logic modules, truth tables, digital codes, sequential systems, semiconductor memories, decade counters, etc. The laboratory program is designed to give students first-hand experience on material covered in lecture using integrated circuits and LED display systems. Two hours lecture, three hours laboratory. Prerequisites: 1701.115 or equivalent.

1902.381-382 **INTERMEDIATE PHYSICS LABORATORY I, II (2, 2)** Extended experimentation related to major developments of modern physics: Millikan oil drop experiment, Franck-Hertz experiment, Compton scattering, e/m measurement, atomic and nuclear spectroscopy, etc. Purpose of the second semester is to familiarize the students with laboratory equipment and techniques of modern research: vacuum systems, cryogenics, electronics, machine shop techniques, thermometry, counters, etc. Prerequisite: 1902.311 or concurrently.

1902.395 **COURSE RESEARCH IN 300-LEVEL COURSES (1)**

1902.401, 402 [66.401, 402] **PHYSICS SEMINAR I, II (1, 1)** Students participate in colloquia on topics of current interests in physics research under guidance of instructor. One lecture hour. Prerequisite: Senior standing or consent of instructor.

1902.411 **PHYSICAL OPTICS (3)** Electromagnetic theory of light, wave solutions, interference, diffraction, scattering, radiation from coherent and incoherent sources, elementary theory of masers and lasers. Three lecture hours. Prerequisite: PHYS 1902.305 or consent of instructor.

1902.435 **ELECTRONICS (3)** Principles of transistors with emphasis on their design and construction and an introduction to logic circuits. Two lecture hours and one two-hour laboratory. Prerequisites: PHYS 1902.305, 1902.335.

1902.437 **INTRODUCTION TO MICROPROCESSOR-BASED DIGITAL SYSTEM (3)** An introductory course on basic microcomputer concepts. Topics covered include basic structure and organization of microcomputers, digital logic design, assembly language programming, memory elements, and applications. Hardware oriented experiments will be conducted providing practical experience in interfacing the microcomputer to a variety of instruments and input-output devices. Two hours lecture and two hours laboratory. Prerequisites: 1902.337.

1902.451 **NUCLEAR PHYSICS (3)** A lecture and problem course dealing on an introductory level concerning experimental and theoretical method for the study of nuclear structure. Topics to be covered include: properties of nuclei, electromagnetic transition and beta decay; nuclear models, nuclear reactions, and two body interactions. Given in alternate years. Prerequisites: 1902.311; 1902.321 or consent of instructor.

1902.471 **INTRODUCTORY QUANTUM MECHANICS (3)** The Schroedinger equation, states of one particle in one dimension, potential barrier problems in one dimension, the harmonic oscillator, system of particles in one dimension, motion in three dimensions, angular momentum, spin, application to atomic physics. It is recommended that 1902.305, 321 be taken prior to this course. Prerequisites: PHYS 1902.301, MATH 1701.373.

1902.472 **INTRODUCTION TO STATISTICAL MECHANICS (3)** Distribution functions microcanonical, canonical and grand canonical ensembles, the partition function and thermodynamic relations. Fermi-Dirac and Bose-Einstein statistics, some simple models and applications, the Maxwell-Boltzman transport equation and the hydrodynamic equation, transport coefficients. Three lecture hours. Prerequisite: PHYS 1902.471.

1902.490 **INDEPENDENT STUDY IN PHYSICS (1-4)** Prerequisite: At least junior status and one course in the Physics Department.

1902.491 **DIRECTED READINGS (1-4)** Prerequisites: At least junior status and one course in the Physics Department.

1902.499 **HONORS THESIS IN PHYSICS (1-4)** Writing of an honors thesis based on independent research done under the direction of a staff member. Prerequisites: Consent of instructor and open only to advanced honors candidates.

PHYSICAL SCIENCE COURSES (1901)

1901.101 **PHYSICAL SCIENCE I (4)** Principles of classical physics with an emphasis on the application of scientific method. May not be used for the Natural Science Major.

1901.121 **PHYSICAL GEOLOGY (4)** Composition and structure of the earth; the internal and external forces acting upon it and the surface features resulting. Laboratory studies of common rocks and minerals, geologic and topographic maps and aerial photographs. Field trips required. Three lecture hours and two laboratory hours per week.

1901.135 **INTRODUCTION TO LASER PHOTOGRAPHY (HOLOGRAPHY) (3)** Geometric interpretation will be used to explain the characteristics of optical holograms: images, redundancy, dynamic range, inter-modulation noise, beam ratios, multiple scenes, and white light holograms. Experimental techniques of making holograms will also be covered. Two hours lecture, two hours laboratory.

1901.151 **ENERGY AND POLLUTION (3)** Basic forms of energy: thermal, electrical, nuclear, solar. The relationship between energy and pollution. The problems of energy and pollution.

1901.161 **GENERAL ASTRONOMY I (3)** Science of astronomy; investigations and theories concerning the solar system, galaxies and the universe. Two lecture hours and one two-hour laboratory period. High school algebra suggested.

1901.162 **GENERAL ASTRONOMY II (3)** A study of stars, stellar systems, galaxies, and cosmology. Emphasis will be placed on the determination of the distance scale and modern trends in astronomy including methods used on space probes. Prerequisite: 1901.161 or acceptable substitute.

1901.171 **HISTORICAL GEOLOGY (3)** The history and development of the continents and ocean basins, and the evolution of life on earth, will be discussed based upon information obtained from the sedimentary rock record. Field trip required. Prerequisite: 1901.121.

1901.195 **COURSE RESEARCH IN 100-LEVEL COURSES (1)**

1901.222 **GEOMORPHOLOGY (3)** Origin and evolution of surface features of the earth as controlled by the interaction of geologic structures and erosional processes. Field work in the Maryland area. Two lecture hours and

one two-hour laboratory period. Prerequisites: PHSC 1901.121.

1901.234 STILL PHOTOGRAPHY (3) Emphasis will be on the production of photographs, rather than the mastery of many techniques. Camera operation, developing, printing and other topics according to student interest. Five contact hours.

1901.295 COURSE RESEARCH IN 200-LEVEL COURSES (1)

Upper Division — Undergraduate and Graduate

1901.303 EARTH-SPACE SCIENCE IN CHILDHOOD EDUCATION (3) Physical science principles applied in the study of earth and space. Emphasis on experimental and discovery approaches that may be used in the elementary school. Prerequisite: 1901.101.

1901.322 GEOMORPHOLOGY OF THE EASTERN UNITED STATES (3) Extent, nature, and geological history of the geomorphic provinces of the Eastern United States. Emphasis on the Middle Atlantic states. Field excursions in the Maryland area. Prerequisite: 1901.222.

1901.331 MINERALOGY (4) The study of minerals with emphasis on crystallography, crystal chemistry, and chemical-structural classification. Laboratory identification of minerals both in hand specimen and thin section by application of principles of optical mineralogy. Three lecture hours and two hours laboratory. Prerequisites: 1901.121; 1905.101-102 and 1902.211-212 or 1902.221-222.

1901.333 PETROLOGY OF IGNEOUS AND METAMORPHIC ROCKS (4) Study of the properties and genesis of two major rock groups. Megascopic and microscopic techniques in rock classification. Environments of formation. Three lecture hours and two hours laboratory. Prerequisite: 1901.331.

1901.335 LASERS AND HOLOGRAPHY (3) The wavefront-reconstructions, laser theory, properties and making of holograms, and the application of lasers and holography will be covered. Special projects will be assigned to students depending upon their individual theoretical experimental background. Prerequisites: 1902.212 or 222, or 1901.135 plus consent of the instructor.

1901.401 ADVANCED LABORATORY IN PHYSICAL SCIENCE (2) Exacting Laboratory work of an advanced nature under the guidance of the Physics Department staff. Each student will present and defend his work at a seminar. Prerequisite: Consent of instructor.

1901.405 FUNDAMENTAL CONCEPTS IN THE EARTH SCIENCES (3) Principles of astronomy, geology and re-

lated earth sciences. Methods of investigation employed by earth scientists. Observations in the planetarium and field studies in the Baltimore area. Two lecture hours and one two-hour laboratory period. No credit allowed if student has taken PHSC 1901.211 and/or PHSC 1901.121. Prerequisite: 1901.101 or equivalent.

1901.411 PHYSICAL SCIENCE FOR TEACHERS (3) An inservice course for teachers in the elementary and/or junior high school designed to develop physical science concepts. Emphasis will be placed on the developing these concepts through laboratory work. Prerequisites: Teaching experience.

1901.443 SEDIMENTOLOGY AND SEDIMENTARY PETROLOGY (3) The study of the materials and processes involved in the formation of sedimentary deposits. Emphasis will be on analysis of sediments and sedimentary structures helpful in determining depositional environments. Prerequisites: 1901.121, 1902.211-212 or 1902.221-222.

1901.470-479 SPECIAL TOPICS IN PHYSICAL SCIENCE (1-4) The study of special topics in the areas of physical science. Special topics will be determined by their need for study and relevance to existing courses.

1901.495 COURSE RESEARCH IN 400-LEVEL COURSES (1)

SCIENCE EDUCATION COURSES (SCIE)

The following courses are taught by instructors in the Department of Physics and Biological Sciences. Course descriptions will be found under the Education Department listings:

SCIE 0834.371 TEACHING SCIENCE IN EARLY CHILDHOOD

SCIE 0834.376 TEACHING SCIENCE IN THE ELEMENTARY SCHOOL

SCIE 0834.380 TEACHING SCIENCE IN THE SECONDARY SCHOOL

SCIE 0834.421 FIELD COURSE IN SECONDARY SCIENCE TEACHING METHODS

SCIE 0834.470-475 SEQUENTIAL SCIENCE MODULES FOR THE ELEMENTARY SCHOOL TEACHER I-VI

SCIE 0834.488 (SUMMERS) AEROSPACE EDUCATIONAL WORKSHOP

SCIE 0834.585 SEMINAR IN ELEMENTARY SCHOOL SCIENCE

Political Science

Professors: BELGRAD, EHRLICH, EKPO, GROSSMAN,
MERANI (Chairperson)

Associate Professors: DENT, KUMAR

Assistant Professors: MARZOTTO

The program of courses in political science aims to promote understanding of the nature of political relationships. The majors in political science are designed to provide preparation for advanced study and to provide the foundation for careers in public administration, law, public relations, business, and research.

Departmental Office

Building — LI
Room — 118N
Phone — 321-2149

BACHELORS DEGREE . . . POLITICAL SCIENCE

Requirements

Major 30

Two of the following

2207.101	Introduction to Political Science	(3) _____
2207.103	American National Government	(3) _____
2207.107	Introduction to International Relations	(3) _____
2207.137	Introduction to Comparative Politics	(3) _____

One of the following Seminars

2207.455	International Law and Organization I	(3) _____
2207.456	International Law and Organization II	(3) _____
2207.457	Use of Force in International Law	(3) _____
2207.482	Seminar in Political Science	(3) _____
2207.483	Seminar: Politics and the News Media	(3) _____
2207.484	Seminar: Politics and the Budgetary Process	(3) _____
2207.485	Democratic Theory Seminar	(3) _____
2207.490	Independent Study	(3) _____
2207.491	Seminar in Contemporary United States Foreign Policy	(3) _____

21 hours of electives must be taken at the upper division level in three of the four major areas of Political Science	(3) _____
	(3) _____
	(3) _____
	(3) _____
	(3) _____
	(3) _____
	(3) _____

Minor 18

Two of the Following

2207.101	Introduction to Political Science	(3) _____
2207.103	American National Government	(3) _____
2207.107	Introduction to International Relations	(3) _____
2207.137	Introduction to Comparative Politics	(3) _____

12 hours of electives must be taken at the upper division	(3) _____
	(3) _____
	(3) _____
	(3) _____
	(3) _____
	(3) _____
	(3) _____

Political Science Major

Thirty credit hours are required for the major in Political Science to be divided as follows:

A. Six credit hours at the lower division level.

B. Twenty one credit hours at the upper division level including courses in three of the four major areas — Comparative Politics, International Politics, American Politics and Public Administration, Law and Political Theory. (Note: Courses taught under the special topic (2207.470-479) and/or Independent Study (2207.490) will be assigned to one of the four areas by the Department or the student's advisor. This is to assure that courses taken under these two categories are not used in more than one area in order to meet the three area requirements.)

C. Three seminar hours from among those offered each semester. (Note: Seminar credit will not be given for Independent Study (2207.490))

Political Science Minor

Eighteen credit hours are required for the minor in Political Science to be divided as follows:

A. Six credit at the lower division level.

B. Twelve credit hours at the upper division level.

Transfer Students

Normally, a student who transfers to Towson State University with senior standing will be expected to complete a minimum of fifteen hours of upper division political science courses here to satisfy the requirements for a major; Those who transfer below senior standing normally will be expected to complete twenty one hours of upper division political science courses.

Division of Courses by Areas

- I. Comparative Politics. 337, 338, 339, 351, 470-479, 482, 490
- II. International Politics. 303, 307, 355, 432, 435, 437, 439, 441, 445, 455, 456, 457, 465, 470-479, 482, 490, 491
- III. American Government and Public Administration, 305, 361, 375, 381, 383, 417, 450, 461, 463, 470-479, 482, 483, 484, 490, 493
- IV. Law and Political Theory. 359, 401, 418, 427, 428, 430, 470-479, 482, 485, 490

POLITICAL SCIENCE (2207)

Each 100 level course — 101, 103, 107, 137 — is at the introductory level. Each may be taken without prerequisites. Each fulfills the general education requirement.

Lower Division — Undergraduate

- 2207.101 INTRODUCTION TO POLITICAL SCIENCE (3) The origins of modern governments. The nature of constitutions and constitutionalism. A definition and interpretation of politics.
- 2207.103 AMERICAN NATIONAL GOVERNMENT (3) Structure and functions of the government of the United States and the problems involved in the extension of the scope of democratic government in our contemporary life.
- 2207.107 INTRODUCTION TO INTERNATIONAL RELATIONS (3) An introductory examination of principles of legal, political, and social relations between nations.
- 2207.137 (68.137) INTRODUCTION TO COMPARATIVE POLI-

TICS (3) The study of politics is introduced through an examination of different political systems. The activities of parties, movements, and pressure groups are examined in the context of different social, political, and economic frameworks.

2207.207 STATE GOVERNMENT (3) Historical background, state constitutions, and the legislative, executive and judicial branches of government. Problems of state administration and federal-state relations. Prerequisite: 2207.103, or consent of the instructor.

Upper Division — Undergraduate and Graduate

Students may be admitted to upper division courses without the listed prerequisites after obtaining the consent of the instructor.

2207.303 THEORY OF INTERNATIONAL POLITICS (3) The theories of mutual relations of states. Elements of national power; international politics as a struggle for power. Restraints upon the struggle for power. Prerequisite: 2207.107 or History 2205.242.

2207.305 URBAN GOVERNMENT AND POLITICS (3) The political history of American cities from the eighteenth century through the recent reform movement. City charters, home rule, types of executives, political machines. The metropolitan area. Prerequisite: 2207.103.

2207.307 CONTEMPORARY INTERNATIONAL POLITICS (3) An examination of the conduct of international relations by the Western, the Communist, and the non-aligned blocs in the Post-World War period. Prerequisite: 2207.303.

2207.337 COMPARATIVE GOVERNMENT OF FOREIGN POWERS: THE WESTERN WORLD (3) An examination of the problems of modernization and stable constitutional rule in England, France, Italy, and Germany. Prerequisite: 2207.101 or 2207.137 or consent of instructor.

2207.338 COMPARATIVE GOVERNMENT OF FOREIGN POWERS: RUSSIA AND THE EAST (3) Constitutional and legal processes of Russia, Japan, China and other Eastern powers. Prerequisite: 2207.101 or 2207.137 or consent of instructor.

2207.339 COMPARATIVE POLITICAL SYSTEMS (3) The course will attempt to bring together the analytical concepts and methodological techniques that may be applied to the study of political systems in a comparative sense. Prerequisite: 2207.103 or 2207.137 or consent of instructor.

2207.341 AFRICAN GOVERNMENT AND POLITICS (3) An examination of the rise of African nationalism and the emergence of new states in Africa. Attention is directed to the influence of colonial rule and traditional political institutions on the development of party politics, patterns of government, and Pan-African ideas. A trend towards the military rule, political problems of the independent Africa, and the efforts of each country to build a strong and viable political system are emphasized. Prerequisite: Any Political Science course or consent of instructor.

2207.351 THE GOVERNMENT AND POLITICS OF LATIN AMERICA (3) An examination of the process of conflict resolution emphasizing the internal dynamics of the political process in Latin America. Emphasis is placed on the contemporary problems of civilian and military rule in Mexico, Brazil, Chile, Columbia, and Argentina. Prerequisite: 2207.101 or 2207.137 or consent of instructor.

2207.355 THE LATIN AMERICAN POLICY OF THE UNITED STATES (3) Diplomatic, political, and economic relations between the United States and Latin America

from Independence to the present. Policies such as the Monroe Doctrine, Pan-Americanism, the Good Neighbor Policy, and the Alliance for Progress are discussed in terms of security, economic interests, and the problems of promoting stable democracies in Latin America. Prerequisite: 2207.101 or 2207.137 or consent of instructor.

2207.359 POLITICAL AND SOCIAL ASPECTS OF REVOLUTION (3) Nature and function of violence and revolution in modern social systems. Prerequisite: 2207.101 or 2207.137 or consent of instructor.

2207.361 POLITICAL BEHAVIOR (3) The purpose of this course is to introduce the student to the substantive theory and methodology of behavioral analysis. Topics include voting behavior, elite behavior, and an analysis of types of political conflict. Prerequisite: 2207.101 or consent of instructor.

2207.375 PUBLIC ADMINISTRATION (3) Administration as a central element of contemporary society, with special reference to the problems of government organization, control, personnel, finance, and public relations. Prerequisite: 2207.103.

2207.381 THE PRESIDENCY (3) A discussion of the origin of the office, the selection of the President and policy-making in the executive branch. Prerequisite: 2207.103.

2207.383 CONGRESS (3) An investigation of the relations of Congress with the other branches of government and with the political parties and interest groups. The course also examines the relationships between a member of Congress and his constituency as well as the internal dynamics of Congress. Prerequisite: 2207.103.

2207.401 INTRODUCTION TO LAW (3) The legal processes in the United States. This course is designed primarily for the liberal arts student. Prerequisite: Sophomore standing and one course of introductory political science.

2207.417 AMERICAN POLITICAL PARTIES (3) Origin and development of the American two-party system. The activities of pressure groups and organizations, and their effects upon the party system. Prerequisite: 2207.103 or consent of instructor.

2207.418 CONSTITUTIONAL LAW (3) A study of the Constitution of the United States based on leading judicial decisions interpreting the Constitution and statutes from 1789 to the present. Prerequisite: 2207.103.

2207.427 POLITICAL THEORY I (3) Political thought in the West from the Greeks to the end of the sixteenth century. Prerequisite: 2207.101 or consent of instructor.

2207.428 POLITICAL THEORY II (3) Political philosophers and their writings since the sixteenth century. Attention given to the conflict of ideologies in the twentieth century. Prerequisite: 2207.101 or consent of instructor.

2207.430 POLITICAL IDEAS OF SOCIALISM AND COMMUNISM (3) This course deals with selected topics in the political theory of socialism and communism including socialism and the ancient regimes, socialism and political organization, Russian, Leninist and Stalinist theory, and socialist ideas in the post cold war period. Prerequisite: 2207.428.

2207.432 UNITED STATES-SOVIET RELATIONS (3) Diplomatic, cultural, and economic relations between the U.S.S.R. and the U.S. Emphasis on the period since 1933 with a careful study of the effects of the Second World War upon the balance of power. Prerequisite: Any 100 level political science course or consent of instructor.

- 2207.435 AFRICA IN WORLD POLITICS (3) The role of African nations in the nuclear age, and their efforts to achieve unity. Prerequisites: 2207.341 or consent of instructor.
- 2207.437 CASTRO AND THE CUBAN REVOLUTION (3) A discussion of the factors that led up to the Castro Revolution in 1959 and the subsequent impact of the creation of the first socialist state on the Western Hemisphere. Prerequisite: 2207.355 or 2207.351, or consent of instructor.
- 2207.439 UNITED STATES FOREIGN POLICY IN SOUTHEAST ASIA (3) American foreign policy in Southeast Asia in the Post World War II period. Prerequisites: 2207.303, and History 2205.110, 2205.146, or consent of instructor.
- 2207.441 CONTEMPORARY UNITED STATES-WESTERN EUROPEAN RELATIONS (3) Emphasis will be on NATO, the European Economic Community, and the Anglo-American efforts to create an Atlantic partnership between Europe and the United States. Prerequisite: 2207.103 or 2207.137, or consent of instructor.
- 2207.445 UNITED STATES FOREIGN POLICY IN SOUTH ASIA (3) A discussion of American foreign policy in South Asia mainly since 1945. Emphasis will be on India and Pakistan. Prerequisite: 2207.303, History 2205.109, 2205.146, or consent of instructor.
- 2207.450 GROUP POLITICS AND PUBLIC OPINION (3) The role of pressure groups and public opinion in the American political system. Prerequisite: Junior standing and nine hours of political science, or consent of instructor.
- 2207.455-456 INTERNATIONAL LAW AND ORGANIZATION I, II (3, 3) An examination of the theories and the development of international law up to the present. The character of the modern state system, the role of international organizations, and international law and resort to force. Prerequisites: 2207.303, and History 2205.242, or consent of instructor.
- 2207.457 USE OF FORCE IN INTERNATIONAL LAW (3) The course will examine the use of force as an instrument of Foreign Policy by various states; and the survey of legal restraints on the use of force throughout history. Prerequisite: 2207.303, 2207.455 or consent of instructor.
- 2207.461 RESEARCH METHODS IN POLITICAL BEHAVIOR (3) The major emphasis in this course will be on the use of quantitative techniques in political research. Topics include survey research, the use of computers, and statistical analysis. Prerequisite: Any course at 100 level.
- 2207.463 SCOPE AND METHODS OF POLITICAL SCIENCE (3) The nature of political inquiry, approaches to the study of politics and government, and empirical methods of research will be the core areas of this course. Prerequisite: A minimum of 9 credits in Political Science including at least one upper division course.
- 2207.465 EDITORIAL WORK—TOWSON STATE

JOURNAL OF INTERNATIONAL AFFAIRS (1) (One per semester—four semester limit.) Members of the Editorial Board of The Towson State Journal of International Affairs prepare the issues of that Journal under the supervision of the faculty advisors. Admission by consent of the instructor.

- 2207.470-479 SPECIAL TOPICS IN POLITICAL SCIENCE (3) An examination of current topics in political science. The content of the course will depend upon mutual faculty and student interest. Prerequisite: Any 100 level POSC course or consent of instructor.
- 2207.482 SEMINAR IN POLITICAL SCIENCE (3) Various methods and techniques of research in political science, culminating in the preparation of a seminar paper. Prerequisite: eighteen semester hours in political science, or consent of instructor.
- 2207.483 SEMINAR: POLITICS AND THE NEWS MEDIA (3) Focuses on the relationship between the government and the news media in terms of that which exists and what it should be. Considers such topics as White House press operations, the First Amendment, government efforts to control the news, and efforts by the media at self-regulation. Prerequisite: 2207.103.
- 2207.484 SEMINAR: POLITICS AND THE BUDGETARY PROCESS (3) An analysis of the budgetary process. The budget is considered as an instrument of fiscal policy and government planning. Budget preparation and classification with special emphasis given program and performance budgeting. Problems in budget authorization, execution, and control. Prerequisite: 2207.375 or consent of instructor.
- 2207.485 DEMOCRATIC THEORY SEMINAR (3) This course attempts to trace the sources of Democratic Theory to their 16th century origins and to analyze the variants to that theory which have been proposed since that time. Prerequisite: 2207.428.
- 2207.490 INDEPENDENT STUDY (3) Individual and supervised study in selected areas of political science. Admission by consent of instructor.
- 2207.491 SEMINAR IN CONTEMPORARY UNITED STATES FOREIGN POLICY (3) An examination of the nature, basis, and instruments of American foreign policy in the contemporary age. The formulation, control, and execution of American foreign policy will also be noted. Prerequisites: 2207.303, and History 2205.146, or consent of instructor.
- 2207.493 PRACTICUM IN POLITICS (3-9) This course is designed to familiarize students with practical working of political and governmental institutions. The flexibility in time and credit arrangements will allow a variety of political practice (or internships) in which students can combine observation of "politics in action" with discussions and generalization of the observed. Prerequisite: Junior standing, major in political science, and consent of the department chairperson.

Psychology

Professors: CASSATT, FURUKAWA, NEULANDER, SAXTON, SUYDAM, SLATER

Associate Professors: ARMSTRONG, BASS, FIGLER, GROENHEIM, MILLER, PETRI, RASKIN, SANDERS (Chairperson)

Associate Professors: ASHER, BAILEY, DICESARE, FINK, JOHNSON, JOSSELSO, KRUGGEL, LAVIN, LEYHE, PARENTE, RABIN, RAVAL, SANDERS, VANDERHORST, WALEN, WEBSTER, YOUNG, ZWEBACK

Assistant Instructor — CRANE

Visiting Professors — GIBSON, POPE

Visiting Assistant Professor: McGEE

A student may elect a major (32 hours) or minor (24 hours) in psychology programs aimed at understanding and predicting behavior. Electives beyond the basic requirements facilitate preparation for: (1) graduate work in psychology and in guidance, (2) training in special and in general education, (3) vocations requiring a liberal arts background, and (4) providing clinical services.

Departmental Office

Building — PY

Room — 200B

Phone — 321-3080

BACHELORS DEGREE . . . PSYCHOLOGY

Requirements

Major — total 32

Minor — total 24

All students who major (32 credits) or minor (24 credits) in psychology are required to complete these three core courses.

2001.101	General Psychology	(3) _____
2001.111	Behavioral Statistics	(4) _____
2001.261	Experimental Psychology	(4) _____

(Major) In addition to the above a psychology major will select 21 elective hours which must include at least one course from each of the following four areas of study:

I.	Human Development	_____	(3) _____
II.	Clinical-Social	_____	(3) _____
III.	Biopsychology	_____	(3) _____
IV.	Learning-Cognition	_____	(3) _____

Approved courses in each of the four areas are listed below. The remaining 9 elective hours may be selected from any 200, 300, or 400 level courses.

_____	(3) _____
_____	(3) _____
_____	(3) _____

(Minor) A minor in psychology requires the selection of 13 elective hours which will include at least one course from area IV, Learning-Cognition. The remaining 10 elective hours may be selected from any 200, 300, or 400 level courses.

_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____

Students who intend to apply for graduate programs in psychology should be aware that other courses beyond the departmental requirements should be considered. To

help in this task it is necessary to maintain close contact with a faculty advisor in the process of course selection.

Area I (Human Development)

1. Adolescent Psychology (2001.321)
2. Introduction to the Exceptional Child (2001.471)
3. The Psychology of Aging (2001.405)
4. Psychology of Individual Differences (2001.330)
5. Psychology of Women (2001.323)

Area II (Clinical-Social)

1. Abnormal Psychology (2001.361)
2. Applications of Behavioral Principles to Family and Classroom Environments (2001.421)
3. Behavior Modification I (2001.311)
4. Behavior Modification II (2001.312)
5. Clinical Interviewing I (2001.437)
6. Clinical Interviewing II (2001.439)
7. Clinical Testing Procedures I (2001.413)
8. Clinical Testing Procedures II (2001.414)
9. Environmental Psychology (2001.341)
10. Group Dynamics (2001.431)
11. Identification and Treatment of Sensory Disabilities in the Schools (2001.475)
12. Information Service in Counseling and Guidance (2001.441)
13. Introduction to the Helping Relationship (2001.425)
14. Introduction to Psychotherapy I (2001.453)
15. Introduction to Psychotherapy II (2001.455)
16. Introduction to Interviewing Techniques I (2001.427)
17. Interviewing Techniques II (2001.428)
18. Personality (2001.350)
19. Personality Measurement (2001.416)
20. Organizational Psychology (2001.409)
21. Social Psychology (2001.325)
22. Systems and Techniques of Counseling Practice (2001.430)
23. Tests and Measurements (2001.411)

Area III (Biopsychology)

1. Behavioral Pharmacology (2001.309)
2. Comparative Psychology (2001.460)
3. Physiological Psychology (2001.465)
4. Sensation and Perception (2001.317)

Area IV (Learning-Cognition)

1. Cognitive Psychology (2001.461)
2. Human Learning (2001.401)
3. Motivation (2001.315)
4. Psychology of Learning (2001.305)
5. Psychology of Reading (2001.407)

Transfer Students

Transfer students may transfer a maximum of 15 hours toward the major.

Transfer of Credits

For courses completed prior to matriculation at Towson, the Admissions Office will normally determine whether the credits are transferrable. In these cases, therefore, the Department will only make recommendations in unique cases. For courses to be taken at other institutions *after* matriculation, prior approval of the department and the Academic Standards Committee is required.

In all other cases, the Department will consider credit transfer on an individual basis. These requests to the Department should be submitted in writing, with a description of the course content (e.g., catalog description) and the name and author of the textbook used.

SPECIAL PROGRAMS

Clinical Concentration for Psychology Majors

The Clinical Concentration Program offers training in clinical psychology leading to a B.S. degree in psychology from Towson State University and a certificate in Mental Health from the Sheppard Pratt School of Mental Health Studies. The program provides a 4-semester course sequence, beginning in the first term of the junior year. Courses are organized around practicum experience with intensive supervision so that there is unbroken continuity between theory and practice of clinical skills.

The curriculum requirements consist of three components.

- A. Basic college and psychology department requirements.
- B. Two prerequisites before entry into the program.
Abnormal Psychology and Introduction to the Helping Relationship (to be completed during the sophomore year)
- C. Clinical Concentration courses:
 - Term I: The Initial Interview (3 cr.); Systems and Techniques of Counseling Practice (3 cr.)
 - Term II: Practicum in Psychotherapy (4 cr.); Issues in Treatment (2 cr.)
 - Term III: Practicum in Psychotherapy (4 cr.); Group Dynamics I (3 cr.)
 - Term IV: Group Psychotherapy Practicum (3 cr.); Practicum in Psychotherapy (4 cr.)

Psychology Honors

The Department of Psychology seeks to give special recognition to students for academic excellence through its Honors Program. The guiding philosophy of the Department's Honors Program is to provide the student with a specialized learning experience in both scholarly investigation and scholarly writing. The student who completes an approved program will receive a diploma with the designation Bachelor of Arts or Bachelor of Science in Honors in Psychology. Departmental honors will also appear on the student's transcript.

The program is developed for the junior and senior years and includes nine to ten credit hours in 2001.381 (70.381), 2001.485 (70.485), and 2001.488 (70.488). A colloquium presentation based on the Senior Thesis 2001.499 (70.499) is required. An honors candidate will also be required to take the Graduate Record Examination and is expected to achieve no less than the 50th percentile on the Aptitude Test (Verbal and Quantitative) and no less

than the 70th percentile on the Area Specialization Test in Psychology.

To be admitted to the program a student must present an overall cumulative average of 3.25 with a cumulative average of 3.50 in Psychology. To graduate from the program the recipient of the honors degree must maintain as a minimum the aforementioned cumulative averages. For additional procedural details contact the Department's Honors Coordinator.

Master of Arts in Psychology

The Master of Arts in Psychology is designed for students who are primarily interested in an advanced degree in General Psychology, School Psychology, Clinical Psychology or Counseling. For detailed information, see the Catalog of Graduate Studies.

PSYCHOLOGY COURSES (2001)

Lower Division — Undergraduate

- 2001.101 GENERAL PSYCHOLOGY (3) Methods and principles. Attention to: Measurement, experimentation, sensation, perception, learning, emotion, thinking, remembering, personality, adjustment, development and individual differences. Students will be required to participate in two supervised experiments (outside of class time) to further their understanding of the application of methods of science to the study of human behavior. Prerequisite: None. Fall, Spring, Summer.
- 2001.106 APPLIED PSYCHOLOGY (3) Psychologists' contributions to education, medicine, law, mental health and business. Application to problems in these areas. Lectures and field trips. Prerequisite: None. Spring.
- 2001.111 BEHAVIORAL STATISTICS (4) Distributions and graphs, notation, levels of measurement, percentiles, measures of central tendency and variability, principles of probability, the normal curve, standard scores, sampling theory, hypothesis testing, significance of differences, correlation and prediction, computation on computer terminals, Chi square, Non-parametrics, One-Way analysis of variance. Prerequisite: None. Fall, Spring, Summer.
- 2001.201 EDUCATIONAL PSYCHOLOGY (3) The learning process and related concepts; human development; individual differences; measurement and evaluation; personality and adjustment. Prerequisite: 2001.101. Fall, Spring, Summer.
- 2001.203 HUMAN DEVELOPMENT (3) A study of research and theories related to the overall development of the human throughout the life cycle with emphasis on the interaction of physiological, personality, and social components of development. Prerequisite: 2001.101. Spring & Fall.
- 2001.209 CONSUMER BEHAVIOR (3) Basic psychological concepts concerning consumer behavior such as the cognition, perception, learning, attitudes, cognitive dissonance, risk-taking, motivation, and personality of the buyer. Emphasis on the interrelation of economics and sociocultural factors on consumer decision-making, including recent research findings and marketing applications. Prerequisite: 2001.101. Spring & Fall.
- 2001.211 CHILD PSYCHOLOGY (3) Theories and research methods of child behavior. Development of major psychological functions. Psychology majors will not receive major credit for this course and 2001.203 or 2001.403. Prerequisite: 2001.101. Fall, Spring, Summer.
- 2001.223 INDUSTRIAL PSYCHOLOGY (3) A survey of psychological principles applied to man at work, to

work tasks, to work settings, and to the design of equipment used in work. Prerequisite: 2001.101. Fall.

2001.230 **MENTAL HYGIENE (3)** Adjustment as related to mental health, problems to which adjustment is made, and the nature of conflict. Prerequisite: 2001.101. Spring.

2001.261 **EXPERIMENTAL PSYCHOLOGY (4)** The experimental method and its application to recent problems in psychological research; introduction to experimental design and inference; animal and human learning, perception, social, personality, maturation. Three hours lecture, two hours laboratory per week. Prerequisites: 2001.101 and 2001.111. Fall, Spring.

Upper Division — Undergraduate and Graduate

2001.305 **PSYCHOLOGY OF LEARNING (3)** Analysis of selected problems in both human and animal learning including reinforcement, punishment, verbal learning and verbal behavior. Prerequisite: 2001.261. Fall, Spring and Summer.

2001.309 **BEHAVIORAL PHARMACOLOGY (3)** A systematic investigation of the effects of drugs on behavior. Drug classification, historical aspects, methodological considerations, uses in treatment, drug abuse, and related topics will be considered. Prerequisite: 2001.261 or consent of instructor. Fall, Spring, alternate summers.

2001.311 **BEHAVIOR MODIFICATION I (3)** Examination & application of the basic principles of the experimental analysis of behavior, with an emphasis on the applied aspects of this modern discipline to schools, jobs, interpersonal relations and self-control. Prerequisites: 12 hours of Psychology, including 2001.261. Spring.

2001.312 **BEHAVIOR MODIFICATION II (3)** Intensive academic and practicum training in various individually oriented behavior therapy techniques. Close individual supervision in practicum work. Prerequisite: 2001.311. Fall.

2001.315 **MOTIVATION (3)** Theories of motivation, motivational antecedents, and the consequences of such antecedents on instrumental behavior, learning and perception. Prerequisite: Six hours PSYC. Fall.

2001.317 **SENSATION AND PERCEPTION (3)** A systematic investigation on the basic senses such as vision, audition, taste, smell, and touch will be undertaken. The organization of sensory input will also be emphasized. Both human and non-human data will be presented. Prerequisite: 2001.261. Spring.

2001.323 **PSYCHOLOGY OF WOMEN (3)** Behavioral consequences of chromosomal, hormonal, and maturational influences on female development are contrasted with culturally derived patterns of sex-typical behavior. Traditional theoretical approaches to motivation, personality, and mental health are related to changing perspectives with regard to women, their roles and self-concepts. Prerequisite: 6 hours in Psychology (including 2001.101).

2001.325 **SOCIAL PSYCHOLOGY (3)** The structure and function of groups. Recent advances in sociology, anthropology and psychiatry as related to psychology. Prerequisite: 2001.101. Fall & Spring.

2001.330 **PSYCHOLOGY OF INDIVIDUAL DIFFERENCES (3)** Individual differences in human traits and characteristics; methodology, basic principles, and major findings in research. Prerequisites: 2001.101 and 2001.111. Spring.

2001.341 **ENVIRONMENTAL PSYCHOLOGY (3)** The relationship between the physical and social environ-

ment and behavior, i.e., places, spaces, and people. How man/woman construes, interprets, comprehends, feels about the environment, and how the environment functions as a reflection of human needs and values. Topics include environmental design, crowding, privacy, human territoriality, personal space. Prerequisite: 2001.101.

2001.350 **PERSONALITY (3)** Theoretical and practical approaches to the study of personality. Introduction to psychodynamics and to methods and materials of assessment. Prerequisite: Six hours PSYC. Spring.

2001.361 **ABNORMAL PSYCHOLOGY (3)** Disordered personal reactions to life. Organic and functional phenomena plus therapeutic techniques. Prerequisite: Nine hours PSYC including 2001.203 or consent of instructor.

2001.381 **READINGS IN PSYCHOLOGY (1-2)** A survey of relevant research literature under the guidance of a staff member who will direct the students' research. Prerequisite: 2001.261, or consent of instructor. Fall, Spring.

2001.383 **PROCTORING IN PSYCHOLOGY (3-6)** Students serve as teaching apprentices or proctors in a course which they have already completed (such as General Psychology), and which they must relearn to 100% mastery. Students will manage the learning and evaluate individual progress of the members of the class assigned to them. The experience includes guidance, support, and motivation of the assigned students, all in a supervised situation. Only 3 credits may be earned in one semester. For six (6) credits, the student must serve as a proctor for two separate courses. Prerequisites: Successful completion of five or more Psychology courses or: general, educational and child, or adolescent psychology and principles of education and be a junior or a senior plus permission of instructor. Fall, Spring, Summer. Grading of S/U option only.

2001.385 **SEMINAR IN PSYCHOLOGY (1-3)** Survey and critical evaluation of modern literature pertaining to selected problems in Psychology. Prerequisite: 2001.261, or consent of instructor. Fall, Spring.

2001.401 **HUMAN LEARNING (3)** This course will focus upon aspects of learning applicable specifically to human behavior. This includes such topics as acquisition, memory, problem solving, creativity and language. Topics will be discussed within a framework of historic and current theoretical research perspectives. Prerequisites: 2001.261, 2001.305.

2001.403 **PSYCHOLOGY OF INFANCY AND CHILDHOOD (3)** A review of the historical changes in the areas of infancy and childhood research. Emotional, cognitive and individual development will be covered in depth along with current issues in Infancy and Childhood research and theory. Not open to students who have taken 0823.413. Prerequisite: 2001.203.

2001.404 **ADOLESCENT PSYCHOLOGY (3)** Physical, emotional, intellectual development during adolescence; social development and heterosexuality; adolescent personality; problems of adjustment; juvenile delinquency. Prerequisite: 2001.203. Fall, Spring.

2001.405 **THE PSYCHOLOGY OF AGING (3)** A study of the changes in learning, emotions, personality and social behavior and the impact of culture and attitude on the aging process. Prerequisites: 6 hours of PSYC including 2001.203. Students should be aware of how to read and understand psychology journals and how psychological research is conducted.

2001.407 **PSYCHOLOGY OF READING (3)** Psychological foundations of current technology for teaching reading and improving reading skills. Study, evaluation,

- and implications of psychological studies, psychological models of reading (cognitive, information processing, and chunking), and learning theory on the beginning, intermediate, and advanced reader. Prerequisites: 2001.101, 2001.201, 2001.211 or 2001.511, recommended 1220.105.
- 2001.409 ORGANIZATIONAL PSYCHOLOGY (3)** Human relations in the work setting. Topics will include theory and research concerning leadership, job satisfaction and motivation, organizational communication, group dynamics, and organizational change. Prerequisite: Six hours PSYC.
- 2001.411 TESTS AND MEASUREMENTS (3)** Psychological and educational testing and evaluation. The construction, administration, interpretation and use of various evaluative devices of aptitude and achievement. Prerequisites: 2001.101 and 2001.111. Fall, Spring, Summer.
- 2001.416 PERSONALITY MEASUREMENT (3)** A continuation of 2001.411 that will emphasize the use and interpretation of instruments for measuring attitudes, interests and related aspects of personality. Instruments studied will include paper-pencil inventories, projective devices and observational procedures. Prerequisites: 2001.411 and 2001.230, or 2001.361. Spring.
- 2001.421 APPLICATIONS OF BEHAVIORAL PRINCIPLES TO FAMILY AND CLASSROOM ENVIRONMENTS (3)** Practical application of operant techniques to child management and family functioning. Course will deal with behavioral analysis, behavior modification programs and family contracting both at school and at home, with emphasis on learning basic technical skills. Prerequisite: 2001.211.
- 2001.425 INTRODUCTION TO THE HELPING RELATIONSHIP (3)** Current concepts of the helping relationship and an exploration of the conditions that facilitate its effectiveness. Prerequisites: 2001.101, and psychology major or minor planning to enter one of the helping professions, or graduate student in Guidance and Counseling, or consent of the department. Fall, Spring, Summer.
- 2001.427 INTRODUCTION TO INTERVIEWING TECHNIQUES I (3)** An introduction to interviewing with the examination of real interviews with children in difficulty. The theory and methods of delivery of helping services via the interview. Prerequisites: minimum of two months interviewing experience and consent of instructor. Course is offered in one week session. January and June. Grading of S/U option only.
- 2001.428 INTERVIEWING TECHNIQUES II (3)** This is a continuation of 2001.427. The course explores more deeply the unique relationship of the interviewer to the client. There is a practical experience with critiquing of interviews of students. Prerequisite: 2001.427. Grading of S/U option only.
- 2001.429 INTRODUCTION TO THE COUNSELING OF MINORITY GROUPS (3)** An introduction to the study of the counseling function with emphasis upon minority groups needs, counselor attitudes and techniques. Prerequisite: 2001.101 and Psyc major or minor planning to enter one of the helping professions or graduate student in Guidance and Counseling or consent of department coordinator.
- 2001.430 SYSTEMS AND TECHNIQUES OF COUNSELING PRACTICE (3)** Review and application of current theoretical approaches to the helping relationship. Prerequisites: 2001.425 and either 2001.230 or 2001.361 or 2001.540. Spring.
- 2001.431 GROUP DYNAMICS (3)** Intensive study of group interactions with emphasis upon reciprocal group influence of behavior. Prerequisite: 2001.221 or consent of instructor. Fall.
- 2001.433 GROUP PSYCHOTHERAPY PRACTICUM (3)** Supervised experience in use of group intervention techniques. Students will counsel groups of troubled adolescents. Supervision will focus on both group and individual dynamics. Prerequisite: 2001.431, admission to Clinical Concentration Program.
- 2001.435 SUPERVISED FIELD EXPERIENCE (3-6)** Placement in a community service agency to familiarize the student with its current practices. Supervised client contact will be provided. Prerequisites: 23 hours of psychology and consent of instructor.
- 2001.439 THE INITIAL INTERVIEW (3)** Clinical observation and practicum experience. Focus on interviewer and interviewee dimensions and relationship with patients. Use of tapes, seminars and individual supervision. Prerequisite: 2001.425. Fall.
- 2001.441 INFORMATION SERVICE IN COUNSELING AND GUIDANCE (3)** Educational and vocational resources. Evaluation, classification and use of such information. Prerequisite: 2001.101.
- 2001.445 COUNSELING PSYCHOLOGY (3)** An introduction to ethics, issues, and the history of counseling psychology. Counseling with children and adults, various points of view, techniques for introducing therapeutic movement, and the essentials necessary for effective counseling. Prerequisite: Psychology major planning to enter one of the helping professions, or graduate student in counseling, or consent of Counseling Program coordinator.
- 2001.453 ISSUES IN MENTAL HEALTH INTERVENTION (2)** Readings, lectures, and seminars relating to psychological emergencies and the modes of intervention during psychological crises. Prerequisite: 2001.425, 2001.454 concurrent, admission to Clinical Concentration Program.
- 2001.454 PRACTICUM IN PSYCHOTHERAPY (4-12)** Techniques of psychotherapeutic intervention. Students will see patients in psychotherapy under intensive supervision. Seminars and individualized readings. Prerequisite: 2001.453 concurrent and admission to Clinical Concentration Program.
- 2001.460 COMPARATIVE PSYCHOLOGY (3)** A survey of the major behavioral adaptations in nonhuman and human species, within the framework of evolutionary theory, ethology, and experimental psychology. Three hours of lecture a week. Prerequisite: 2001.261 and consent of instructor. Fall, Spring.
- 2001.461 COGNITIVE PSYCHOLOGY (3)** This course will deal with the nature of the cognitive processes, an analysis of the organization of cognitive abilities, and problems in cognition. Theoretical viewpoints will be explored, including those of Piaget, J. P. Guilford, Ausubel, Lewin, Skinner. A comparison among theories will be made as they relate to the thinking processes. Prerequisites: 2001.203, 2001.211 or with consent of instructor. Spring.
- 2001.462 LABORATORY IN COMPARATIVE PSYCHOLOGY (2)** This course is a laboratory experience to accompany Comparative Psychology (2001.460). Students will be trained in basic observational and recording techniques used in studying behavior from a comparative-ethological vantagepoint. A supervised project will also be undertaken by students. Can be taken concurrently or subsequently to 2001.460. Prerequisite: May be taken concurrently with or subsequent to 2001.460, or consent of instructor.
- 2001.465 PHYSIOLOGICAL PSYCHOLOGY (3)** This course is concerned with an introduction to the physiological bases of behavior. The topics to be considered are basic neuroanatomy and neurophysiology, sensory and

motor systems, motivational systems, and "higher order" behavioral systems. Three hours of lecture per week. Prerequisite: 2001.261 or consent of instructor. Fall, Spring.

2001.466 LABORATORY IN PHYSIOLOGICAL PSYCHOLOGY (2) This course is intended to expand upon 2001.465. Students will receive experience in dissection of the sheep brain, small animal surgical and histological techniques, and small animal behavioral testing techniques. This course may be taken either concurrently with or subsequently to 2001.465. Spring. Prerequisite: May be taken concurrently with or subsequent to 2001.465, or consent of instructor.

2001.467 ADULT PSYCHOLOGY (3) A study of adult behavior between the ages of 18 and 60. The developmental stages of young adulthood, adulthood, and middle age will be discussed along with topics pertinent to each of the levels such as leaving and becoming emancipated from the family; the transition and adjustment to marriage and work; and bridging the gap between ideals and actual fulfillment. Prerequisite: 2001.203.

2001.471 INTRODUCTION TO THE EXCEPTIONAL CHILD (3) Children with a typical, physical, mental, social and emotional development, including the physically handicapped, the mentally retarded, the gifted, and emotionally disturbed children. Prerequisite: 2001.201 or 2001.211. Fall.

2001.475 IDENTIFICATION AND TREATMENT OF SENSORY DISABILITIES IN THE SCHOOLS (3) The use of psychological and informal tools to identify sensory disabilities related to perceptual development and the employment and development of treatment methods will cover the first half of the semester. During the second half of the semester, students will be actively involved in working with children experiencing these difficulties. Cross and fine motor coordination, visual-motor coordination, ocular control, auditory discrimination, and verbal skills will be covered. Prerequisite: Consent of coordinator of School Psychology.

2001.480 SYSTEMS OF PSYCHOLOGY (3) Schools of psychology with their theoretical and methodological approaches. Prerequisites: At least a junior psychology major and consent. Spring.

2001.485 EXPERIMENTAL DESIGN (4) Design and analysis — Analysis of variance (completely randomized design, repeated measurement designs, etc.), multiple comparisons, nonparametrics, general problems related to sampling, experimental effects, etc. Prerequisite: 2001.111, or consent of instructor. Fall, Spring.

2001.491 INDEPENDENT INVESTIGATION IN PSYCHOLOGY (3) An opportunity for especially qualified students to undertake research problems according to their interest and training under the direction of a staff member. Prerequisites: 2001.261 and consent of department chairperson. Fall, Spring.

2001.499 SENIOR THESIS IN PSYCHOLOGY (4) (Honors) Independent research on special problems in Psychology or closely related fields. Prerequisites: 2001.261, 2001.485, Honors approval. Fall, Spring.

Graduate Division

2001.511 DEVELOPMENTAL PSYCHOLOGY (3) Psychological structures and functions in human development. Theoretical and research approaches. Prerequisite: 2001.201 or equivalent. Fall, Spring, Summer.

2001.513 COMMUNITY MENTAL HEALTH COUNSELING (3) To expose students to the general working of various types of community health centers. The course will also introduce students to the basic mental health services and the relationships between those services;

the responsibility of counseling in a mental health center; and the area of mental health consultant. Emphasis will be given to the application of counseling skills in a mental health setting. The course is intended to be a prepracticum. Prerequisite: 2001.430.

2001.515 INTRODUCTION TO RESEARCH METHODS IN COUNSELING (3) An introduction to the principal methods of behavioral research emphasizing concepts rather than statistical procedures. The course should prepare counselors to evaluate methods, designs, and results of counseling research. Prerequisite: Graduate standing in Counseling.

2001.520 INDIVIDUAL INTELLIGENCE TESTING (3) Construction, standardization, administration, scoring and interpretation of the Wechsler Individual Intelligence Tests, the Stanford-Binet Intelligence Scale, Human Figure Drawings, the Bender Gestalt, the Gray Oral Reading Test and the Wide Range Achievement Test. Prerequisites: 2001.111 and 2001.411. M.A. candidate in School or Clinical Concentration. Consent of co-ordinator. Fall.

2001.521 ADVANCED EDUCATIONAL PSYCHOLOGY (3) Survey of current research in Child Psychology, Learning, Mental Hygiene, and Tests and Measurements. Emphasis on critical analysis of studies. Prerequisite: 2001.511. Fall, Spring, Summer.

2001.531 ADVANCED ABNORMAL PSYCHOLOGY (3) Current and historical perspectives of psychopathology. Emphasis on varied approaches in contemporary schools. Methods of assessment and treatment. Prerequisite: 2001.230 or 2001.361. Spring.

2001.540 MENTAL HYGIENE IN EDUCATION (3) Principles of mental hygiene and their application to the educational setting. Major emphasis on wholesome personality development. Prerequisite: 2001.511. Spring.

2001.543 INTRODUCTION TO SCHOOL PSYCHOLOGY (1) An introduction to ethics and issues in school psychology and preparation of the student to move efficiently through the program. This course should be taken at the beginning of the student's course of studies. Prerequisites: Open only to M.A. candidates in the School Psychology Program. Consent of coordinator. Fall, Spring.

2001.545 COPING STRATEGIES IN THE CLASSROOM (3) Practical application of psychological principles and concepts as related directly to the classroom. This course is designed to increase teacher awareness of the teacher's impact on the classroom members with specific emphasis on individual differences. Prerequisite: 2001.511 or equivalent.

2001.550 DIAGNOSTIC TECHNIQUES IN EDUCATION (3) Use of standardized and teacher-constructed instruments for diagnostic and instructional purposes. Prerequisites: 2001.511, 2001.411 or equivalent. Spring.

2001.551 TECHNIQUES OF GROUP INTERVENTION (3) A theoretical and experiential introduction to the techniques available for use with children experiencing difficulty in the school environment. Emphasis will be on learning the techniques through active participation. Prerequisites: M.A. candidate in School or Clinical Concentration or in Counseling Program. Consent of coordinator. Spring, Summer. Grading is S/U option only.

2001.553 RESEARCH ISSUES IN SCHOOL/CLINICAL PSYCHOLOGY (3) Provides for analysis of major issues in school and/or clinical psychology through the study of selected research. Prerequisites: 2001.111, M.A. candidate in School or Clinical Concentration. Consent of Coordinator.

2001.561 FOUNDATIONS OF REHABILITATION COUNSELING (3) The development of rehabilitation programs; their legal basis and historical background.

The role of medical, psychological, educational and community resources in the rehabilitation program are explored. Client eligibility, determination, and counselor responsibilities will be reviewed. Prerequisite: 2001.101. Spring.

2001.563 **SYSTEMS OF PSYCHOTHERAPY (3)** Course is designed to acquaint students with the more prominent schools of psychotherapy. Particular emphasis is placed on the psychotherapeutic aspect of educational and clinical settings. Prerequisites: 2001.350, 2001.361 or 2001.230, 2001.531. Spring.

2001.565 **PSYCHOTHERAPY AND BEHAVIOR CHANGE I (3)** The first of a two semester sequence designed to acquaint the student through readings, lectures, and actual experience with the various theories and techniques currently utilized in behavior change including individual psychotherapy, family therapy, transactional analysis, rational emotive therapy and behavior modification. 2001.565 may be taken without 2001.566. Prerequisite: Graduate standing in school or clinical psychology tracks.

2001.566 **PSYCHOTHERAPY AND BEHAVIOR CHANGE II (3)** The second of a two semester sequence focused on the continued analysis of major psychotherapy approaches. Each student will conduct an intensive examination of a single psychotherapeutic approach. A seminar paper and a class presentation of the paper will be required. Prerequisite: 2001.565.

2001.567 **PSYCHO-SOCIAL ASPECTS OF DISABILITY (3)** The effect of the psycho-social milieu on the disabled. Person's self-concept will be considered, and approaches to facilitating autonomy and self-actualizing goals in the disabled will be discussed. Prerequisite: graduate standing in psychology or consent of the instructor.

2001.568 **MEDICAL ASPECTS OF DISABILITY (3)** For students in Rehabilitation Counseling and related areas. Structure and function of bodily systems, and implications of physical disabilities in coping with the problems of daily living. Prerequisite: 2001.101.

2001.570 **REFERRAL RESOURCES FOR THE SCHOOL AGE CHILD (3)** A study of referral services for the enhancement of the emotional, vocational, and the behavioral adaptation of children in need of services beyond the classroom situation. The course attempts to give direct knowledge to the student of all such specialized facilities both school and community sponsored. Prerequisite: 2001.511. Summer.

2001.573-574 **ADVANCED EXPERIMENTAL PSYCHOLOGY I, II (4, 4)** The first semester is comprised of experimentation in the field of human behavior, and the second will emphasize experimentation in the field of animal behavior. Prerequisites: Consent of department, chairperson, 2001.111, 2001.261, or equivalent. Spring.

2001.575 **PROSEMINAR I (3)** An intensive survey of basic issues and concepts in learning, perception, motivation, and physiological. Prerequisite: 2001.261 or equivalent.

2001.576 **PROSEMINAR II (3)** An intensive survey of basic issues and concepts in social, developmental, personality, and abnormal. Prerequisite: 2001.261 or equivalent.

2001.577 **LEARNING (3)** A thorough coverage of major learning theories and models. Prerequisite: Consent of department Chairperson, 2001.305 or equivalent, Fall.

2001.579 **SEMINAR IN PSYCHOLOGY (2)** Exploration of current developments in psychology. Topics dependent upon student and faculty interest.

2001.581 **ADVANCED HISTORY AND SYSTEMS OF PSYCHOLOGY (3)** Ancient and modern psychological history; discussion of ancient history will draw heavily from both philosophy and physiology; discussion of modern history will develop psychology in various countries. The analysis of systems will include a study of functionalism, structuralism, behaviorism gestalt and psychoanalysis. Summer.

2001.584 **COLLEGE TEACHING SEMINAR (3)** Materials and procedures for producing successful students in lower level courses will be explored. Spring.

2001.585 **COLLEGE TEACHING PRACTICUM (3)** Supervised teaching of introductory psychology. Prerequisite: 2001.584.

2001.587 **ADVANCED EXPERIMENTAL DESIGN I (3)** An advanced treatment of descriptive and inferential statistical methods and design considerations. Prerequisite: 2001.111 or equivalent. Fall.

2001.588 **ADVANCED EXPERIMENTAL DESIGN II (3)** An indepth treatment of advanced analysis of variance designs and related techniques. Prerequisite: 2001.587 or equivalent. Spring.

2001.589 **MULTIVARIATE METHODS (3)** Multivariate statistical methods useful in behavioral scientific research. Topics, correlation, regression, factor analysis, discriminant analysis. Prerequisite: 2001.587 or equivalent.

2001.591 **PROJECTIVE TECHNIQUES I (3)** This is the first of a two-course sequence dealing with projective techniques. Credit will be awarded only upon completion of the first and second semester of the sequence. The first semester emphasizes an introduction to the administration, scoring and interpretation of projectives in current clinical use. Prerequisites: M.A. candidate in School or Clinical Concentration. Consent of coordinator. Fall.

2001.592 **PROJECTIVE TECHNIQUES II (3)** The second of a two-semester sequence in projective techniques. This semester emphasizes the interpretation and appropriate transmission of projective data. Particular emphasis will be placed on the evaluation of learning problems. Prerequisites: 2001.591, M.A. candidate in School or Clinical Concentration. Consent of coordinator. Spring.

2001.593 **INTERNSHIP IN COUNSELING (3)** Experiences vary according to track; however, this is a broad but intensive experience within a counseling facility involving exposure to the many facets of a mental health professional, including administrative and record-keeping duties; individual and group counseling observations and experiences; referral resources, etc. Prerequisite: Students must have passed Advancement to Degree Candidacy Exam and have taken at least 18 hours in program.

2001.597 **PRACTICUM IN CLINICAL PSYCHOLOGY (3)** Supervised experience in psychological interviewing, assessment, and psychotherapy. This is an intensive practicum in which students will meet for individualized supervision with the practicum instructor. Prerequisite: 2001.520, 2001.591, 2001.592, M.A. Candidate in Clinical Psychology, consent of coordinator, open to students who have been advanced to degree candidacy only.

2001.605 **PRINCIPLES OF GUIDANCE (3)** Aims at establishing a philosophy and gaining a knowledge of the principles of guidance. Includes an introduction to the literature of the field. Prerequisite: 2001.511 or equivalent. Fall, Spring, Summer.

2001.606 **INTRODUCTION TO CAREER DEVELOPMENT (3)** This course is designed to familiarize students with aspects of career development, to introduce them to a variety of relevant resources and media and to assist them to integrate this knowledge by planning a program

of career development for a specific group. Prerequisite: Graduate status.

2001.607 INFORMATION SERVICE IN GUIDANCE AND COUNSELING (3) Provides students with knowledge of educational and vocational opportunities and community referral resources. Includes the evaluation, classification and use of such information in a guidance and counseling program. Prerequisite: 2001.425 or its equivalent.

2001.608 MEDIA IN CAREER EDUCATION (3) This course provides an introduction to the production of videotapes, films, filmstrips, slides and audiotapes pertaining to the world of work. Workshop procedures will be used to develop career education materials for use in a variety of employment settings. Prerequisite: 2001.607.

2001.611 ANALYSIS OF THE INDIVIDUAL (3) Techniques available in studying the individual. Emphasizes data in the areas of vocational, educational and personal adjustment. Prerequisite: 2001.411. Fall, Spring, Summer.

2001.615 TECHNIQUES OF COUNSELING (3) Counseling and therapy techniques used by counselors and other professional personnel working with children and adults. Prerequisite: 2001.430 or equivalent. Spring, Fall, Summer.

2001.621 GROUP COUNSELING (3) This course is designed to survey the theories, principles, and techniques of group counseling. Some additional topics to be covered are the role of the leader, problems of member selection, evaluation of group progress, and the ethics and training of group counselors. Prerequisite: 2001.430.

2001.627 USE OF TESTS IN COUNSELING (3) Practice in the use and analysis of techniques for understanding the individual with emphasis upon standardized procedures used in the public schools. Prerequisite: 2001.411. Fall.

2001.630 COUNSELING THE ELEMENTARY SCHOOL CHILD (3) Study of the dynamics of child behavior, techniques of assessing and counseling. Study of the family,

school, and community structures and their effect on the child. Prerequisite: 2001.430. Spring.

2001.645 COUNSELING PRACTICUM I (3) Supervised experience in educational, vocational and personal counseling. Credit will be granted for this course upon completion of 2001.646. Prerequisites: 2001.430 plus consent of coordinator. Student must pass Advancement to Degree Candidacy Examination.

2001.646 COUNSELING PRACTICUM II (3) Field experience in educational, vocational and personal counseling. Prerequisites: 2001.645 plus consent of coordinator. Fall, Spring.

2001.651 PRACTICUM IN SCHOOL/CLINICAL PSYCHOLOGY (3) Provides an opportunity to participate in diagnostic, remedial and therapeutic planning as well as follow-up studies under supervision of practicing certified psychologists. Prerequisite: 2001.520, 2001.591, 2001.592. Advanced to candidacy in School or Clinical Psychology track or consent of Coordinator.

2001.652 INTERNSHIP IN SCHOOL/CLINICAL PSYCHOLOGY (3) Each student must be a full-time student during the semester he/she enrolls in this course, typically the last semester of work. The student will be placed on internship in a school or clinic depending upon his/her specific orientation. He/she will participate in the complete workings of that agency under the direct supervision of a practicing certified psychologist. This course may be repeated up to a total of three times with the written consent of the track coordinator. Prerequisites: 2001.651. M.A. Candidate in School or Clinical Concentration. Consent of Coordinator. Spring.

2001.690 SEMINAR IN SCHOOL/CLINICAL PSYCHOLOGY (3) Consideration of current practices, trends and techniques in School or Clinical Psychology. Prerequisite: Consent of coordinator. Fall. Open only to M.A. candidates in the School Psychology Program.

2001.699 THESIS (3-6) Optional for students in Master of Arts for School Psychologists program. Required for students in Master's of Arts in General Psychology.



Social Sciences

Coordinator: JOSEPH A. FALCO

This is an interdepartmental major offering courses from the Department of Economics and Political Science, the Department of Geography, the Department of History, and the Department of Sociology and Anthropology.

The Program is designed for those students who do not wish to be confined to a major in a single discipline, but are interested in a broad education, transcending traditional department boundaries. It is useful for those students who plan to enter graduate school for an advanced degree in one of the disciplines of the program; for those students who plan to enter professional schools for a degree in law, social service, or a phase of law enforcement; for those students who seek a broad background in preparation for employment in business and industry, or with a governmental agency. It is particularly designed for students planning to teach social studies at the secondary school level.

The program is administered by a Committee composed of representatives from the various disciplines included in the program. The members of the Committee are: Joseph A. Falco, Professor of History, Chairman of the Committee and Coordinator of the Social Science Program; David Firman, Professor of Geography; John Faris, Professor of Sociology; Herbert D. Andrews, Professor of History; Henry N. Sanborn, Professor of Economics; Pritam T. Merani, Professor and Chairman, Department of Economics and Political Science.

The major offers the student the choice of two distinct social science programs: a social science major in secondary school teaching or a social science major in liberal arts.

The following are the required courses for the social science major and the total number of credits needed by the student to fulfill the requirements of this major. These courses are in addition to the General College Requirements.

Departmental Office

Building — LI
Room — 101E
Phone — 321-2912

BACHELORS DEGREE . . . SOCIAL SCIENCE, SECONDARY EDUCATION

Requirements

Major — Total — 54 plus University requirements for Teacher Certification

2205.145	History of United States to Mid-Nineteenth Century	(3) _____
2205.146	History of United States Since Mid-Nineteenth Century	(3) _____
2205.241	History of European Civilization Through Seventeenth Century	(3) _____
2205.242	History of European Civilization From Seventeenth Century	(3) _____

Two additional courses in any area of history to meet state certification requirements:

2205.	_____	(3) _____
2205.	_____	(3) _____
2206.101	Elements of Geography I or 102 Elements of Geography II	(3) _____
2206.	Geography — Any one upper division course	(3) _____

2204.101	Economic Principles and Problems I	(3) _____
2204.102	Economic Principles and Problems II	(3) _____

Any two Political Science courses from the following:
2207.101, 103, 107, 137, 207:

2207.	_____	(3) _____
2207.	_____	(3) _____
2208.101	Introduction to Sociology	(3) _____
2202.207	Cultural Anthropology	(3) _____

Upper division electives — four courses from any of the disciplines in the program:

_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____

The upper division courses will be taken at Towson State University. To fulfill teacher certification requirements, students should consult the Secondary Education section of the Bulletin.

Requirements

Major — total 60

Two of the following history courses:

2205.145, 146, 241, 242	(3)_____
	(3)_____
2206.101 Elements of Geography I	(3)_____
or 102 Elements of Geography II	(3)_____

2206.	Geography — Any one upper division course	(3) _____
2204.101	Economic Principles and Problems I	(3) _____
2204.102	Economic Principles and Problems II	(3) _____

Two political sciences courses from the following:
2207.101, 103, 107, 137, 207

2208.101	Introduction to Sociology	(3) _____
2202.207	Cultural Anthropology	(3) _____

Upper division electives — 24 credit hours of upper level courses with distribution as follows: Two courses in each of four disciplines of the six disciplines in the program.

_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____

Electives — 6 credit hours of either upper or lower division courses in any of the six disciplines in the program.

_____	(3) _____
_____	(3) _____

At least twenty-four credits of upper division courses must be taken at Towson State University.

_____	(3) _____
_____	(3) _____

Transfer Students

Transfer students in the Social Science Program are required to earn at Towson State University a minimum

of one-half the total number of credit hours required for the major.

Degree Programs

The Bachelor of Arts degree may be earned in either

social science program by adding a foreign language to the major course requirements. The language requirement can be met by completing the intermediate course of a modern foreign language or its equivalent.



Sociology and Anthropology

Professors: HOJJATI, KANDEL, KRANZLER, LEONS,
STANLEY, TOLAND, GOLDBERG (Chairperson)

Associate Professors: FISHER, SEDLACK

Assistant Professors: FARIS, JONES, ROTHSTEIN, SCHEPER,
SMITH, WOLF

Instructor: COCKEY

The purpose of the major in Sociology and Anthropology is to acquaint students with the methods and perspectives of these disciplines, to help them better understand the society in which they live, and societies with which they may have been unfamiliar and to prepare them for graduate study in either Sociology or Anthropology.

Departmental Office

Building — LI
Room — 318N
Phone — 321-2150

BACHELORS DEGREE . . . SPECIALIZATION IN SOCIOLOGY

Requirements

Major — total — 30

2208.101	Introduction to Sociology	(3) _____
2208.381	Sociological Theory	(3) _____
2208.391	Research Methods	(3) _____

One of the following:

2001.111	Behavioral Statistics	(4) _____
1701.231	Basic Statistics	(3) _____

18 hours of electives offered by the department, at least 12 of which must be in courses at the 300-400 level. At least 12 of the required credits must be taken in residence at Towson.

_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____

BACHELORS DEGREE . . . SPECIALIZATION IN ANTHROPOLOGY

Requirements

Major — total — 30

2202.207	Cultural Anthropology	(3) _____
2202.208	Human Evolution & Prehistory	(3) _____
2202.401	Anthropological Theory (offered Fall semester only)	(3) _____

One of the following:

2001.111	Behavioral Statistics	(4) _____
1701.231	Basic Statistics	(3) _____

18 hours of electives offered by the department of which no more than six may be in Sociology. Research Methods (2208.391) is strongly recommended. If taken, a total of 9 credits may be selected from among courses in Sociology. The following courses in linguistics may be credited toward the concentration: Comparative Grammar (1501.332); Historical Linguistics (1501.325); and Structural Linguistics (1501.327). At least 12 credits are to be selected from courses at the 300-400 level. At least 12 of the required credits must be taken in residence at Towson.

_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____
_____	(3) _____

BACHELORS DEGREE . . . SPECIALIZATION IN GERONTOLOGY

Requirements

Major — total — 39

Category I — Courses required within the department. All of the following:

2208.101	Introduction to Sociology	(3) _____
2208.381	Sociological Theory	(3) _____
2208.391	Research Methods	(3) _____

One of the following:

2201.111	Behavioral Statistics	(4) _____
1701.231	Basic Statistics	(3) _____

Category II — Courses within the department required of those specializing in Gerontology. All of the following:

2208.359	Sociology of Aging	(3) _____
2208.370-379	Topics in Soci: Sociology of Death, Dying, and Bereavement	(3) _____
2208.370-379	Topics in Soci: The Older Worker	(3) _____

Category III — Courses required in other departments. All of the following or a substitute approved by the chairman:

1201.411	Health & Later Maturing	(3) _____
2001.405	The Psychology of Aging	(3) _____

Category IV — Selection of courses within the department. Any three courses from among the following are required. Other courses within the department may be taken with prior approval of the chairman.

2202.209	American Culture	(3) _____
2208.329	Demography	(3) _____
2208.335	Medical Sociology	(3) _____
2208.339	Community Organization	(3) _____
2208.357	Social Welfare	(3) _____
2208.496	Practicum in Sociology*	(3-6) _____

* The Practicum is strongly recommended for all students but a sufficient number of placements may not be available.

Category V — Selection of courses in other departments. One of the following is required or a substitute approved by the chairman:

1501.471	Age & Death in 20 Century Literature	(3) _____
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For all specializations, the Bachelor of Arts Degree may be earned by adding a foreign language to the major course requirements. The language requirement can be met by completing the intermediate course of a modern foreign language or its equivalent.

Transfer of courses from Departments of Sociology and/or Anthropology in public colleges and universities in Maryland are routinely made; from other institutions upon assessment of merit. For courses taken in other departments for which a student seeks credit, evidence as to content and qualification of instructor are generally required.

For those specializing in Sociology and Gerontology it is strongly recommended that a statistics course (2001.111 or 1701.231) be taken no later than the first semester of

the junior year; that Research Methods (2208.391) be taken in the semester immediately following; that Sociological Theory (2208.381) be taken in the first semester of the senior year but not at the same time as Research Methods.

Those specializing in Anthropology should note that Anthropological Theory is given in the fall semester only.

For students interested in a career in Law Enforcement or Corrections, the following courses are suggested: Criminology (2208.353), Juvenile Delinquency (2208.355), Corrections in America (2208.356), Introduction to Criminal Justice (2208.354), and Practicum in Sociology (2208.496). Professor Toland serves as adviser for sociology majors in the program.

MINOR IN SOCIOLOGY

Requirements

Requirements for the Minor consist of 24 hours in the Department of Sociology and Anthropology at least 12 of which must be on the 300-400 level. Included also must be the following courses:

2208.101	Introduction to Sociology	(3) _____
1701.231	Basic Statistics or	(3) _____
2001.111	Behavioral Statistics	(4) _____
2208.391	Research Methods	(3) _____
2208.381	Sociological Theory	(3) _____

MINOR IN ANTHROPOLOGY

Requirements

The Minor in Anthropology consists of 24 hours in Anthropology, at least 12 of which must be on the 300-400 level. Included among the courses to be taken must be:

2202.207	Cultural Anthropology	(3) _____
2202.208	Human Evolution & Pre-History	(3) _____
2202.401	Anthropological Theory	(3) _____
1701.231	Basic Statistics or	(3) _____
2001.111	Behavioral Statistics	(4) _____

SOCIOLOGY COURSES (2208)

Lower Division — Undergraduate

- 2208.101 INTRODUCTION TO SOCIOLOGY (3) Sociological concepts, theories, methods; a study of society and culture; the influence of the social environment on individual behavior.
- 2208.203 THE FAMILY (3) The family as the basic group in human societies; its development; its relation to other social institutions; the family in modern industrial societies. Prerequisite: SOCI 2208.101.
- 2208.231 SOCIAL PROBLEMS (3) Problems in social relations created by the organization of society, exploration of alternative means of achieving social goals. Prerequisite: SOCI 2208.101.
- 2208.241 BLACKS IN AMERICA: MYTHS AND REALITY (3) Focus on prevailing myths regarding black society, the reasons why such myths have developed, and the reality which contradicts these myths. Prerequisite: SOCI 2208.101.

Upper Division — Undergraduate and Graduate

- 2208.311 INDIVIDUAL AND SOCIETY (3) A social psychological approach to the inter-relationships of the individual and his/her social and cultural environment; behavioral characteristics resulting from social experience. Prerequisite: SOCI 2208.101.

- 2208.321 IDEOLOGY, POWER AND SOCIETY (3) Influence of the structure of society and its political conflicts on the ideas which men hold and in the name of which they struggle: the social and political sources of social movements and belief systems, the industrial society and its influence on the nature of masses and elites; the socio-political role of intellectuals. Prerequisite: SOCI 2208.101.

- 2208.323 SOCIAL CHANGE (3) A sociological analysis of the sources, processes and consequences of social change. Prerequisite: SOCI 2208.101.

- 2208.325 COLLECTIVE BEHAVIOR (3) Study of unorganized and organizing groups and their impact on society: crowds, mobs, riots and other processes of disruptive and constructive change. Prerequisite: SOCI 2208.101.

- 2208.327 URBAN SOCIOLOGY (3) Survey of the theoretical and sociological conceptualizations of modern western industrial cities. Prerequisite: SOCI 2208.101.

- 2208.329 DEMOGRAPHY (3) Social, economic, and political problems related to changes, distribution and movement of population trends in the U.S. and the world. Prerequisite: SOCI 2208.101.

- 2208.331 ORGANIZATIONS (3) Structure and functioning of large scale organizations; formal and informal aspects of bureaucracies in business, government, politics, education and other institutional spheres of society. Prerequisite: SOCI 2208.101.

- 2208.333 POLITICAL SOCIOLOGY (3) Contemporary relevance of the fundamental ideas regarding the relationship of the social and political systems; the significance of social and political democratization; class struggles and revolution the influence of government bureaucracy. Prerequisite: 2208.101.

- 2208.335 MEDICAL SOCIOLOGY (3) A study of social and cultural perspectives on illness; demographic trends; the health professions; and institutions for the delivery of health care services. Prerequisite: SOCI 2208.101.

- 2208.337 SOCIOLOGY OF EDUCATION (3) Sociological analysis of education as a basic social institution; formal and informal organizations of educational systems; relationship to socialization; major social trends in education; concepts of academic freedom. Prerequisite: SOCI 2208.101.

- 2208.339 COMMUNITY ORGANIZATION (3) The organization of the community as a vehicle for identifying and meeting human needs; processes and techniques of community planning and development, traditional and contemporary. Prerequisite: SOCI 2208.101.

- 2208.341 CLASS, STATUS AND POWER (3) An examination of major theories and significant research on socially structured inequality in modern and traditional societies. Prerequisite: SOCI 2208.101.

- 2208.343 MINORITY GROUPS (3) An examination of intergroup life as an aspect of society; conflicts between races, ethnic groups, and minorities; prejudice, segregation and integration. Prerequisite: SOCI 2208.101.

- 2208.351 SOCIAL DEVIANCE (3) Deviance as an aspect of social living; the problem of understanding conformity and deviance; identification of deviants; society's response to deviant behavior. Prerequisite: SOCI 2208.101.

- 2208.353 CRIMINOLOGY (3) The nature of crime; factors underlying criminal behavior; police, courts, law, and correctional institutions. Prerequisite: 2208.101.

2208.354 INTRODUCTION TO CRIMINAL JUSTICE (3) The history, the present structure, the functions and the contemporary problems of the police, prosecution, courts, corrections, probation and parole. In addition, a brief introduction to law as an element of social control will be given. Prerequisites: SOCI 2208.101.

2208.355 JUVENILE DELINQUENCY (3) A study of delinquency; the process of socialization and delinquent behavior in society; prevention and treatment of delinquency. Prerequisite: SOCI 2208.101.

2208.356 CORRECTIONS IN AMERICA (3) The analysis of agencies and programs designed for the custody and supervision of individuals convicted of crimes. The primary focus will be on adult institutions and community corrections. Prerequisites: 2208.353 or 2208.354 or 2208.355.

2208.357 SOCIAL WELFARE (3) Sociological analysis of social welfare institutions and the functions they perform within modern societies. Prerequisite: SOCI 2208.101.

2208.359 SOCIOLOGY OF AGING (3) Examination of social factors in aging from the viewpoint of the individual, the group and society; socialization process and old age, identity and social roles, loneliness and alienation; demographic aspects of aging; societal definitions, norms, values, dilemmas, and responses to the aging; evaluation of research in social gerontology. Prerequisite: SOCI 2208.101.

2208.370-379 TOPICS IN SOCIOLOGY (3) An examination of current topics in sociology designed for non-majors as well as majors. The content of the course will depend upon mutual faculty and student interest. Prerequisite: SOCI 2208.101.

2208.381 SOCIOLOGICAL THEORY (3) Major systems of sociological theory; the works, assumptions, and implications of major European and American schools. Prerequisites: Junior standing; SOCI 2208.101; nine additional hours of SOCI.

2208.391 RESEARCH METHODS (3) A consideration of methodology of sociological research; the various steps in conducting research projects, from statement of the problem to final analysis of data. Prerequisites: SOCI 2208.101; nine additional hours of SOCI; either PSYC 2001.111 or MATH 1701.231.

2208.470-479 SPECIAL TOPICS IN SOCIOLOGY (3) An examination of current topics in sociology designed for junior and senior majors. The content of the course will depend upon mutual faculty and student interest. Prerequisites: SOCI 2208.101 and six additional hours of SOCI.

2208.481 ADVANCED SOCIOLOGICAL THEORY (3) Critical analysis of emerging theoretical schools. Attention will be given to contemporary theoretical problems. Prerequisites: 2208.101 and 2208.381.

2208.485 SEMINAR IN SOCIOLOGY (3) Exploring and analyzing major areas of sociology. For senior students with a major in sociology. Prerequisites: SOCI 2208.381 and consent of instructor.

2208.495 INDEPENDENT RESEARCH (3) Supervised research and sociological investigation involving library and/or field experiences, and culminating in a written report. Prerequisites: SOCI 2208.391 and SOCI 2208.381 and consent of instructor.

2208.496 PRACTICUM IN SOCIOLOGY (3-6) Supervised experience in work setting which facilitates understanding of roles and relationships relevant to sociological inquiry and application of sociological knowledge. Credit will be assigned on basis of extent and nature of

experience. Prerequisite: SOCI major; Junior standing and consent of Practicum Coordinator.

2208.497 SEMINAR IN SOCIOLOGY (Honors) (3) Exploring and analyzing major areas of sociology. Prerequisite: Consent of the Honors Coordinator.

2208.498 READINGS IN SOCIOLOGY (Honors) (4) A survey of the relevant scholarly literature under the guidance of a staff member who will direct the student's research. Prerequisite: Consent of the Honors Coordinator.

2208.499 HONORS THESIS (4) Supervised research and sociological investigation involving library and/or field experiences and culminating in a written report. Prerequisite: Consent of the Honors Coordinator.

ANTHROPOLOGY COURSES (2202)

Lower Division — Undergraduate

2202.207 CULTURAL ANTHROPOLOGY (3) Introduction to social and cultural anthropology; cultural theory, social structure, human ecology, language and culture, technology, religion, art, and literature.

2202.208 HUMAN EVOLUTION AND PRE-HISTORY (3) The study of man: his biological and cultural development through time.

2202.209 AMERICAN CULTURE (3) This course applies the anthropological perspective and methodology to the study of the institutions of American culture and the distinctive ways of life encompassed by it. Students will use the perspective in a field work situation of their choice.

Upper Division — Undergraduate and Graduate

2202.321 SEX ROLES IN CROSS CULTURAL PERSPECTIVE (3) Materials from a variety of cultures will be used to illustrate and analyze the roles of women and men within the major institutional aspects—the family, economics, politics and religion. Particular attention will be devoted to the similarities and differences in sex role patterns within and between the cultures. Prerequisite: SOCI 2208.101 or ANTH 2202.207.

2202.346 WEALTH, POWER & POLITICS IN CROSS-CULTURAL PERSPECTIVE (3) Political systems and the distribution of power in egalitarian, ranked, and stratified societies will be examined. Prerequisite: SOCI 2208.101 or ANTH 2202.207.

2202.364 RELIGION, MAGIC AND WITCHCRAFT (3) The world view, beliefs and rituals of selected non-literate peoples considered with reference to religion as a universal category of human culture. Prerequisite: ANTH 2202.207.

2202.365 NORTH AMERICAN INDIANS (3) The traditional culture of native North Americans and their socio-cultural place in modern American society will be examined. Prerequisite: ANTH 2202.207.

2202.366 SOUTH AMERICAN INDIANS (3) Survey of the cultures of the native peoples of South America in Pre-Columbian times and the situation of contemporary tribal peoples of South America. Prerequisite: ANTH 2202.207.

2202.367 PEOPLES OF THE MIDDLE EAST (3) Survey of the Middle East as a cultural area with emphasis on culture change. Prerequisite: ANTH 2202.207.

2202.369 TRADITION AND REVOLUTION IN LATIN AMERICAN SOCIETY (3) An anthropological perspective

tive will be brought to bear on contemporary Latin American culture and society. The Pre-Columbian heritage, the traditional synthesis and the struggle to modernize and develop will be examined. Prerequisites: SOCI 2208.101, ANTH 2202.207 or ANTH 2202.208.

2202.370-379 TOPICS IN ANTHROPOLOGY (3) An examination of current topics in Anthropology designed for non-majors as well as majors. The content of the course will depend upon mutual faculty and student interest. Prerequisite: ANTH 2202.207.

2202.381 ARCHAEOLOGICAL METHODS AND THEORY (3) Methods of excavating and recording archaeological data. Investigation of problems of current research interest. Prerequisite: ANTH 2202.207.

2202.383 NORTH AMERICAN ARCHAEOLOGY (3) Regional survey of the prehistory of native North American cultures. Prerequisite: ANTH 2202.207 or 2202.208.

2202.385 ARCHAEOLOGY OF THE AMERICAN SOUTHWEST (3) An examination of the evidence of pre-historic cultures of the Southwest: Anasazi, Hohokam, and Mogollon. Detailed description and interpretation of the remains. Prerequisites: ANTH 2202.207 or 2202.208 and consent of instructor.

2202.388 PEASANT CULTURES (3) The course will focus on the rural agricultural population of modern states; their traditional lifeways and the changes being wrought by modernization. Prerequisite: SOCI 2208.101 or ANTH 2202.207.

2202.401 ANTHROPOLOGICAL THEORY (3) Survey of the theoretical contributions made by American,

British and Continental anthropologists. Prerequisites: ANTH 2202.207 plus nine hours of ANTH.

2202.470-479 SPECIAL TOPICS IN ANTHROPOLOGY (3) An examination of current topics in Anthropology designed for junior and senior majors. The content of the course will depend upon mutual faculty and student interest. Prerequisites: ANTH 2202.207 and six additional hours of ANTH.

2202.495 INDEPENDENT RESEARCH (3) Supervised research and anthropological investigation leading to preparation of a research project or a supervised field experience. For senior students with a specialization in anthropology. Prerequisites: At least 12 credits in ANTH and consent of department chairperson.

2202.496 PRACTICUM IN ANTHROPOLOGY (3-6) Supervised experience in work setting which facilitates understanding of roles and relationships relevant to anthropological inquiry and application of anthropological knowledge. Credit will be assigned on basis of extent and nature of experience. Prerequisite: Specialization in anthropology; Junior standing and consent of Practicum Coordinator.

2202.498 READINGS IN ANTHROPOLOGY (Honors) (4) A survey of the relevant scholarly literature under the guidance of a staff member who will direct the student's research. Prerequisite: Consent of Honors Coordinator.

2202.499 HONORS THESIS (4) Supervised research and anthropological investigation involving library and/or field experiences and culminating in a written report. Prerequisite: Consent of the Honors Coordinator.



Theatre Arts

Professor: BERMAN (Choirperson), GILLESPIE

Associate Professors: MANLOVE, BAKER

Assistant Professor: LOESCHKE

Instructors: COBERG

Assistant Instructors: KITZ, CASLELLA

The curriculum in the department is designed to provide the best possible learning and training for the student wishing to major in theatre arts. The program is designed to provide, in cooperation with other departments, a broad liberal education as well as specialized professional training with the emphasis placed upon skill as well as knowledge. The main emphasis is the creation of an artistic point of view on the part of the students.

Major in Theatre Arts

The major in theater arts is time consuming and physically demanding. Majors must be free to participate in theater activities evenings and weekends.

Participation in the college drama productions is a part of the educational program of theater arts majors. All theater majors must participate in production seminars each semester.

At the end of the sophomore year, students must be approved individually by the department each semester in order to continue in the program.

Students transferring from other institutions and planning to major in theatre arts at Towson are required to complete a minimum of 20 hours of theatre arts courses in residence at Towson.

Departmental Office

Building — FA

Room — 353

Phone — 321-2144

BACHELORS DEGREE . . . THEATRE ARTS DEPARTMENT

Requirements

Major — Total — 36

1007.105	Theatre and the Humanities I	(3)_____
1007.106	Theatre and the Humanities II	(3)_____
1007.107	Theatre and the Humanities III	(3)_____
1007.108	Theatre and the Humanities IV	(3)_____
1007.499	Special Project in Theatre Research	(3)_____

And at least 2 courses from the following:

1007.411	Problems in Acting or Directing I	(1-3)_____
1007.412	Problems in Acting or Directing II	(1-3)_____
1007.413	Problems in Acting or Directing III	(1-3)_____
1007.493	Problems in Theatre I	(1-3)_____
1007.494	Problems in Theatre II	(1-3)_____
1007.495	Problems in Theatre III	(1-3)_____
1007.496	Problems in Theatre IV	(1-3)_____
1007.497	Problems in Theatre V	(1-3)_____
1007.498	Problems in Theatre VI	(1-3)_____
1007.480	Problems in Design & Technical Thea. I	(1-3)_____
1007.481	Problems in Design & Technical Thea. II	(1-3)_____
1007.482	Problems in Design & Technical Thea. III	(1-3)_____

And a minimum of eight to ten additional elective hours in

theatre to make a total of 36 credit hours. Each student will work out an individualized program in conjunction with a faculty advisor. All students are required to successfully participate in production seminar each semester.

Curriculum for a Minor in Theatre Arts

Any 18 hours in theatre courses approved in advance, as a minor, by the director of theatre.

THEATRE ARTS COURSES (1007)

Service Division

- 1007.027 THEATRE MANAGEMENT (0) Organization and control of the business, box office, house and publicity programs of the theatre. Offered on demand.
- 1007.109 DRILL IN MOVEMENT FOR THE STAGE (1) Analysis of individual problems in movement for the stage, and drill in corrective exercises. Majors only.
- 1007.110 DRILL IN VOICE FOR THE STAGE (1) Analysis of individual problems in voice for the stage, and drill in corrective exercises. Majors only.

Lower Division — Undergraduate

- 1007.103 INTRODUCTION TO THE THEATRE (3) Theatrical experience through study of the various types, styles, and production processes of the theatre. Theatre as a public art and its relationship to our culture.
- 1007.105 THEATRE AND THE HUMANITIES I (3) History of the Theatre and its relation to the Arts and Sciences. Greek and Medieval period. Meets three periods for lecture and one period for discussion.
- 1007.106 THEATRE AND THE HUMANITIES II (3) History of the Theatre and its relation to the Arts and Sciences. Renaissance period. Meets three periods for lecture and one period for discussion.
- 1007.107 THEATRE AND THE HUMANITIES III (3) History of the Theatre and its relation to the Arts and Sciences. Age of Reason and Romantic period. Meets three periods for lecture and one period for discussion.
- 1007.108 THEATRE AND THE HUMANITIES IV (3) History of the Theatre and its relation to the Arts and Sciences. The Modern World. Meets three periods for lecture and one period for discussion.
- 1007.141 GRAPHIC TECHNIQUES FOR THE THEATRE (2) A course in the standard graphic practices of the draftsman. The emphasis will be on the reading and producing of working drawings, for lighting, costume, and scenic design.
- 1007.143 VISUAL ELEMENTS IN THEATRE (3) An examination of visual elements in theatrical production to aid the designer, director, and actor to think in terms of visual metaphors for the stage.
- 1007.201 TECHNIQUES IN THEATRE DESIGN (3) Practice in such techniques as drafting, elevation, drapery sketching, figure drawing, and rendering techniques to prepare a student to work in set or costume design.
- 1007.221 ACTING I (3) Theory and practice of acting. The development of the actor's imagination and techniques through improvisations, pantomimes, exercises, and simple scenes.

1007.222 **ACTING II (3)** Theory and practice of acting. Work in role analysis and character building in more complex scenes. Prerequisites: 1007.221 and consent of instructor.

1007.231 **MIME I (3)** Basic techniques of the art of Mime. Exercise and work in images and illusions. Three credit hours, four contact hours.

1007.232 **MIME II (3)** Improvisations with images and illusions. Three credit hours, four contact hours.

1007.241 **COSTUME HISTORY AND DESIGN: EGYPT TO RENAISSANCE (4)** Study of costume from ancient Egyptian civilization to the Renaissance. Costume design and construction. Work on crews for college drama productions.

1007.242 **COSTUME HISTORY AND DESIGN: ELIZABETHAN TO 1940 (4)** Study of costume from the Elizabethan to 1940. Costume design and construction. Work on costume crews for college drama productions.

1007.245 **STAGE MAKEUP I (2)** Survey of materials and study of theories and techniques of stage makeup. Class meets for two hours per week.

1007.246 **STAGE MAKEUP II (2)** Advanced stage makeup using materials such as home latex, rubber, collodion, and mask making and doing complete detailed character makeups. Prerequisite: 1007.245.

1007.251 **STAGECRAFT (3)** Technical aspects of play production including scene construction, scene painting, property building and stage lighting. (Work on technical crews for college drama productions required.)

1007.261 **ACTING FOR MUSICAL THEATRE I (3)** An introduction to the acting problems inherent in Musical Theatre performance. Theory and practice. The development of the actor's awareness, imagination, and technique through lectures, improvisations, exercises, and ensemble scenes. Prerequisite: 1007.221 or consent of instructor.

1007.262 **ACTING FOR MUSICAL THEATRE II (3)** Theory and practice of acting in a musical theatre situation. Work in scene and role analysis, character development, and personal performing technique. Prerequisites: 1007.261 and consent of instructor.

1007.285 **BEGINNING THEATRE WORKSHOP (6)** Open to students who have not had performance courses in the theatre. Course will provide intensive experience in acting, mime, voice production, directing, and musical theatre. Students will participate in, observe, and, when appropriate, assist college faculty with performance and technical theatre activities.

Upper Division — Undergraduate and Graduate

1007.307 **THEATRE ARTS FOR CHILDREN (3)** Theory and techniques of playmaking for children. Lecture, demonstration, and participation in pantomime, improvisation, and story dramatization.

1007.311 **THEATRE PRODUCTION (4)** An examination of the nature and philosophy of educational and community theatre with practical work in directing, publicity, management, and the coordination of technical elements. Fifteen hours of work required with high school, community, or college theatre organizations. Prerequisites: 1506.221, 1007.251, 1007.245, 1501.312, and 1007.221 or 1007.231.

1007.321 **ACTING III (3)** An examination of the problems of the actor in Shakespearean roles. Both theory and practice of Shakespearean acting are dealt with. Prerequisites: 1007.222, limited to majors and consent of instructor.

1007.331 **PLAY DIRECTING I (3)** Fundamentals of play directing through exercises, directorial play analysis, and projects in directing short scenes. Prerequisites: 1007.105 and 1007.221 or 1007.103 or consent of instructor.

1007.355 **STAGE LIGHTING (3)** Theory of light and electricity with emphasis on the planning of light plots. Aesthetic effort of stage lighting and problems of lighting small stages with minimum equipment. Prerequisite: 1007.251 or consent of instructor.

1007.361 **DESIGN FOR THE STAGE (3)** Theory and practice of designing scenery for the stage. Includes a study of the relationship of the set design and other elements of production; and examination of research techniques in preparation for scene designing and practice in designing scenery for many styles and types of drama. Prerequisite: 1007.251 or consent of instructor.

1007.371 **THEATRE GAMES I (1)** Exercises in acting designed to develop the individual's creativity and encourage work on personal acting techniques. Prerequisite: 1007.221.

1007.372 **THEATRE GAMES II (1)** Exercises in acting designed to develop the individual's creativity and encourage work on personal acting technique. Prerequisite: 1007.221.

1007.401 **THEATRE AS A PROFESSION (1)** Working conditions, unions, employment opportunities in the theatre. Preparation of professional credentials, audition material, etc. Prerequisite: Theatre Arts major or consent of instructor.

1007.407 **THEATRE ARTS FOR CHILDREN — ADVANCED (3)** Extended study of material and variety of techniques in the use of theatre as means of expression by children. Practical experience in guiding and directing children in creative dramatic activities in a classroom or other arranged situation. Prerequisite: 1007.307.

1007.421 **PLAY DIRECTING II: THE CONTEMPORARY PLAY (3)** Preparation techniques and directional approaches to contemporary drama. Individual directing projects of scenes from representative contemporary dramas. Prerequisite: 1007.331 or consent of instructor.

1007.431 **DIRECTING THE PERIOD PLAY (3)** Research techniques and directorial approaches to period drama. Individual directing projects of scenes from representative period dramas. Prerequisite: 1007.331 or consent of instructor.

1007.441 **COSTUME DESIGN (3)** Study of theories, principles of costume design and practice in designing costumes for the stage. Including a study of the relationship of color, texture, and historical period to the script and style of a theatrical production. Also practical use of costume research techniques in preparing designs. Experience in designing costumes for many historical periods and styles of plays.

1007.471 **PRODUCING STORY THEATRE IN THE SCHOOLS (3 credits — undergraduate; 2 credits — graduate)** The history, theory, and techniques of story theatre. The application of story theatre to all levels of education, with emphasis on the secondary schools. Prerequisites: One Speech or Drama course plus teaching experience, or consent of the instructor.

1007.473 **WORKSHOP IN STORY THEATRE (3 credits — undergraduate; 2 credits — graduate)** Practical experience in producing story theatre. Each student will direct at least one story theatre production and perform in at least one story theatre production. Prerequisite: The workshop should only be taken concurrently with 1007.471.

- 1007.475 USING THEATRE GAMES TECHNIQUES IN THE SCHOOLS (3 credits — undergraduate; 2 credits — graduate) The theory and techniques of theatre games. The application of the problem-solving techniques of theatre games to all levels of education, with emphasis on the secondary schools. Prerequisites: One Speech or Drama course plus teaching experience, or consent of the instructor.
- 1007.477 WORKSHOP IN THEATRE GAMES TECHNIQUES (3 credits — undergraduate; 2 credits — graduate) Practical experience in utilizing theatre games techniques in rehearsal and performance. Each student will develop, rehearse, and produce a project and will also perform in at least one other project. Prerequisite: The workshop should only be taken concurrently with 1007.475.
- 1007.485 ADVANCED THEATRE WORKSHOP FOR SECONDARY SCHOOL TEACHERS (6) Open to graduate students and undergraduate students of junior and senior standing who have had courses in theatre and/or practical experience in theatre. May be taken for graduate or undergraduate credit. Students will work with high school students in theatre projects and will have opportunities to design and/or direct. Interested applicants should contact the Director of the Summer Theatre Workshop at the earliest opportunity, preferably June 1.
- 1007.486 WORKSHOP IN THEATRE PRODUCTION FOR SECONDARY SCHOOL TEACHERS (6) Course is open to graduate students and undergraduate students of junior or senior standing who wish to gain practical experience in working with the technical theatre production elements of secondary school theatre. May be taken for graduate or undergraduate credit. Students will work with the University Theatre Department's costume and scenic design staff in conjunction with the Theatre Workshop for High School Students. Prerequisite: Upper division standing or graduate standing.
- 1007.487 PROFESSIONAL THEATRE SEMINAR (12) A semester's internship in a resident theatre company. For majors only. Prerequisite: Approval of director of theatre.
- 1007.493 PROBLEMS IN THEATRE I (1-3) Independent study of an academic or creative nature. For majors only. Prerequisites: Approval of plan of study by instructor and director of theatre.
- 1007.494 PROBLEMS IN THEATRE II (1-3) Independent study of an academic or creative nature. For majors only. Prerequisites: Approval of plan of study by instructor and director of theatre.
- 1007.495 PROBLEMS IN THEATRE III (1-3) Independent study of an academic or creative nature. For majors only. Prerequisites: Approval of plan of study by instructor and director of theatre.
- 1007.496 PROBLEMS IN THEATRE IV (1-3) Independent study of an academic or creative nature. For majors only. Prerequisites: Approval of plan of study by instructor and director of theatre.
- 1007.497 PROBLEMS IN THEATRE V (1-3) Independent study of an academic or creative nature. For majors only. Prerequisites: Approval of plan of study by instructor and director of theatre.
- 1007.498 PROBLEMS IN THEATRE VI (1-3) Independent study of an academic or creative nature. For majors only. Prerequisites: Approval of plan of study by instructor and director of theatre.
- 1007.411 PROBLEMS IN ACTING OR DIRECTING I (1-3) An upper level course designed to deal with the student's acting or directing problems on an advanced level. Prerequisites: 1007.221, 1007.222, 1007.231, majors only and consent of instructor.
- 1007.412 PROBLEMS IN ACTING OR DIRECTING II (1-3) An upper level course designed to deal with the student's acting or directing problems on an advanced level. Prerequisites: 1007.221, 1007.222, 1007.231, majors only and consent of instructor.
- 1007.413 PROBLEMS IN ACTING OR DIRECTING III (1-3) An upper level course designed to deal with the student's acting or directing problems on an advanced level. Prerequisites: 1007.221, 1007.222, 1007.231, majors only and consent of instructor.
- 1007.480 PROBLEMS IN DESIGN AND TECHNICAL THEATRE I (1-3) An advanced course enabling the student to derive credit for special problems in the area of Technical Theatre. Prerequisites: 1007.201, 1007.241, 1007.251, majors only and consent of instructor.
- 1007.481 PROBLEMS IN DESIGN AND TECHNICAL THEATRE II (1-3) An advanced course enabling the student to derive credit for special problems in the area of Technical Theatre. Prerequisites: 1007.201, 1007.241, 1007.251, majors only and consent of instructor.
- 1007.482 PROBLEMS IN DESIGN AND TECHNICAL THEATRE III (1-3) An advanced course enabling the student to derive credit for special problems in the area of Technical Theatre. Prerequisites: 1007.201, 1007.241, 1007.251, majors only and consent of instructor.
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University. [1968]
- SUSAN R. WALEN, Assistant Professor, Psychology
B.A., M.A., Ph.D., University of Maryland. [1970]
- JAMES W. WALL, Instructor, Physical Education
B.A., University of Michigan; M.S., Indiana University;
R.P.T., New York University. [1973]
- ROBERT WALL, Professor, Education
B.S., Iowa State University; M.A., Kent State University;
Ph.D., University of Maryland. [1966]
- BILL L. WALLACE, Professor, Communication Arts
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B.S., M.S., Central Michigan University; Ph.D., Ohio State
University. [1968]
- CAROLYN WALTER, Instructor, Physical Education
B.S., West Virginia University. [1973]
- TERRY L. WANLESS, Instructor, Physical Education
B.S., Black Hills State College; M.S., Northern Illinois
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- HARRIET H. WARREN, Associate Professor and Field Work
Coordinator, Occupational Therapy
Dip. in O.T., Milwaukee-Downer College; B.S., New York
University; M.S., Boston University. [1974]
- PATRICIA WATERS, Assistant Professor, Education
B.S., M.Ed., Towson State College. [1964]
- DONALD WATTS, Instructor, Music
B.M.M.M., University of Kansas. [1973]
- JOHN W. WEBSTER, Assistant Professor, Psychology
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- IRVIN WEINTRAUB, Associate Professor, Economics
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- DONALD A. WESLEY, Professor, Education
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- JOHN M. WESSNER, Instructor, Physics
A.B., Amherst College; M.S.T., Wisconsin State University;
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of Pa. [1969]
- MARK WHITMAN, Professor, History
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[1967]
- JANE WILEY, Assistant Professor, Nursing
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- JACQUELINE WILKOTZ, Associate Professor, English
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- DONALD R. WINDLER, Professor, Biology
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North Carolina. [1969]
- ALAN S. WINGROVE, Associate Professor and Chairperson,
Chemistry
B.S., University of California, Berkeley; Ph.D., University of
California, Los Angeles. [1973]
- PAUL E. WISDOM, Vice President, Associate Professor,
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- GUY H. WOLF, II, Assistant Professor, Anthropology
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GARY WOOD, *Associate Professor, English*
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Pittsburgh. [1971]

ARTHUR C. YARBROUGH, JR., *Associate Professor,*
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B.S., Georgia Southern College; M.A., Georgia Peabody
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[1972]

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State University. [1971]

CARL L. ZIMMERMAN, *Professor, Mathematics*
B.S., Washington College; M.A., Louisiana State University;
Ph.D., University of Maryland. [1962]

MILDRED ZINDLER, *Professor, Art*
A.B., Florida State University; M.A., Ed.D., Teachers College,
Columbia University. [1956]

MARGARET C. ZIPP, *Associate Professor, Mathematics*
B.S., Douglass College, Rutgers University; M.A., University
of Pittsburgh. [1959]

STANLEY ZWEBACK, *Assistant Professor, Psychology*
B.A., Trenton State College; M.E., Rutgers University;
Ph.D., University of Maryland. [1970]



FACULTY EMERITUS

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 St. Joseph Hospital

JOHNNELL BRANCH, RRA, *Director Health Record Administration*
 U.S. Public Health Service Hospital

MAUD BROYLES, *Professor, Education*
 ROBERT L. BRUUN, *Associate Director for Administration*
 U.S. Public Health Service Hospital

HENRY CRIST, M.D., *Pathologist*
 St. Joseph Hospital

DAVID A. DOBROW, M.D., *Pathologist*
 Union Memorial Hospital

ROBERT E. DURELL, M.T. (ASCP), *Education Coordinator*
 Union Memorial Hospital

MARILYN DYER, *Assistant Professor Education, and Director of Research*
 L.L.T. Learning Resource Center

JACK EPSTEIN, *Professor, Education*
 MAURICE B. FURLONG, M.D., *Pathologist*
 St. Joseph Hospital

DENNIS GIFFORD, M.A., M.T., (ASCP), *Administrative Coordinator*
 St. Joseph Hospital

RICHARD GRAHAM, *Pathologist*
 Union Memorial Hospital

MARY HAMEL-SCHWULST, *Assistant Professor, Art*

LAURA LANSPERRY, *Assistant Professor, Mathematics*

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 St. Joseph Hospital

DINORAH LIMA, *Instructor, Modern Languages*

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 U.S. Public Health Service Hospital

GWENDOLYN LYNCH, *Assistant Professor, Communication Arts and Sciences*

MICHAEL MAFFETONE, M.T. (ASCP), *Director of Pathology*
 Union Memorial Hospital

DEZSO K. MERENYI, M.D., *Director of Pathology*
 Union Memorial Hospital

LAWRENCE F. MISANIK, M.D., *Director of Pathology*
 St. Joseph Hospital

MICHAEL O'PECKO, *Instructor, Modern Languages*

CARLOS ORBEGOS, M.D., *Pathologist*
 Union Memorial Hospital

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 St. Joseph Hospital

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 Union Memorial Hospital

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 THOMAS CASCELLA, *Theatre Arts*
 GARY COBERLY, *Media Services*
 THEODORE DEMETRIADES, *Chemistry*
 SHARON DONOVAN, *Fine Arts*
 TERRY EMMEL, *Chemistry*
 JERRY HARTUNG, *Auxiliary Services*

MILTON HAWKINS, *Biology*
 KAREN INMAN, *Library*
 CHERYL KITZ, *Theatre Arts*
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M.S., Indiana State University.

DAVID BERGMAN, *Instructor, English*
B.A., Kenyon College;
ABD, Ph.D., Johns Hopkins University

DANIEL BROWN, *Instructor, Art*
B.S., Towson State University;
M.F.A., University of Massachusetts.

VIVIAN BRAUN, *Instructor, Modern Languages*
B.A., Case West Reserve; Academic Degree and Teacher's Certificate, Baltimore Hebrew College.

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M.A., University of Maryland.

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JUDITH DOUGLAS, *Instructor, English*
B.A., M.A., Northwestern University.

DOROTHY N. FIX, *Assistant Professor, Art*
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JO-ANN FUCHS, *Assistant Professor, Philosophy*
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ALICE GILES, *Instructor, Biology*
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SUE N. GREENE, *Assistant Professor, English*
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DIANE JEZIC, *Instructor, Music*
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CHARLES I. KRATZ, JR., *Assistant Professor, Communication Arts and Sciences*
B.A., University of Alabama;
M.A., Johns Hopkins University.

FRANCIS KUSHNER, *Instructor, Mathematics*
B.S., Towson State University

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B.A., Rutgers University.

EDWARD PALANKER, *Assistant Professor, Music*
B.M., Manhattan School of Music.

ELIZABETH PALMER, *Instructor, English*
B.A., Mount Holyoke College;
M.A., Johns Hopkins University.

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Directory of Telephone Numbers

ACADEMIC AFFAIRS

Vice President	321-2125
Dean of Arts and Letters and Communications	
Arts and Sciences	321-2128
Dean of Social Sciences, Humanistic Studies, and Managerial Sciences	321-2128
Dean of Teacher Education	321-2571
Dean of Applied Sciences	321-2124
Dean of Natural Sciences and Mathematics	321-2131
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Afro-American Cultural Center	321-2641
Alumni Services	321-2234
Art	321-2808
Asian Arts Center	321-2807
Athletics	321-2759
After 6:00 p.m. & Weekends	321-2370
Biological Sciences	321-3042
Black Student Union	321-2331
Box Office	
Theatre	321-2787
Towson Center	321-2733
University Union	321-2362
Business Administration Instruction	321-2934
Business and Finance	
Vice President	321-2151
Catering	321-2522
Chemistry	321-3058
Communications & Media Services	321-2582
Communications Arts & Sciences	321-3099
Counseling Center	321-2512
Dining Services	321-2300
Economics & Political Science	321-2958
Education	321-2570
Early Childhood	321-2572
Elementary	321-2565
Records Center	321-2684
Secondary & Foundations	321-2562
Student Teaching	321-2567
English-American Literature	321-2871
English-World Literature	321-2947
EVENING COURSES	321-2022
Facilities Rental	321-2315
Financial Aid	321-2061
FINANCIAL OPERATIONS	321-2100
Foundation, TSU, Inc.	321-2223
Geography & Environmental Planning	321-2973
GRADUATE STUDIES	321-2500
Health Center	321-2466
Health Science	321-2637
History	321-2923
Institutional Development	
Vice President	321-2223
Instructional Technology	321-2575
International Studies	321-2962
Library	321-2461
Lida Lee Tall Learning Resources Center	321-2351
Mathematics	321-3091
Minimester Courses	321-2032
Minority Relations	321-2051
Modern Language	321-2883
Music	321-2839
News and Publications	321-2229
Nursing	321-2067
Occupational Therapy	321-2637

Orientation	321-2310
Parking Services	321-2284
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Physical Education	321-2377
Physical Plant	321-2481
Physics	321-3020
Placement	321-2233
POLICE DEPARTMENT, UNIVERSITY	321-2133
President	321-2356
Psychology	321-2634
Purchasing	321-2171
REGISTRAR	321-2700
Residence	321-2516
Sociology	321-2852
SPECIAL EVENTS INFORMATION	321-2200
Special Services	321-2315
Student Government Association	321-2711
Student Services	
Vice President	321-2055
Student Services	321-2057
SUMMER COURSES	321-2022
Testing Center	321-2042
Theater Arts	321-2792
Tower Echoes Yearbook	321-2713
Towerlight Weekly Newspaper	321-2288
University Store	321-2323
University Union	321-2362
After 5:00 p.m. & Weekends	321-2315
Veteran Affairs	321-2097
WCVT Radio	321-2897
Women's Center	321-2666

For the numbers of all departments except
those listed above call 321-2000

An attendant will be on duty from 8:00 a.m. to 5:00 p.m.
Monday through Friday.

OFFICE HOURS:

8:30 a.m. — 5:00 p.m. week days during academic year

MAILING ADDRESS:

Towson State University
Towson, Maryland 21204

Specific correspondence should be addressed as follows:

ADMISSIONS	Director of Admissions
BUSINESS	Vice-President, Business and Finance
CURRICULUM AND INSTRUCTION	Vice-President for Academic Affairs and Dean of the College
GENERAL INFORMATION	President
HOUSING OF STUDENTS	Director of Residence Halls
SCHOLARSHIPS AND FINANCIAL AIDS	Director of Financial Aid
STUDENT AFFAIRS AND WELFARE	Vice-President for Student Affairs
TRANSCRIPTS, ACADEMIC RECORDS, REGISTRATION	Registrar

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Towson State University Academic Calendar 1978-1979

Fall Semester 1978

August 30, Wednesday	Residence Halls open
August 30, Wednesday	Registration and Orientation for new students not previously registered
August 31, September 1, Thursday, Friday	Complete Registration and Change of Schedule for pre-registered continuing students — late registration by permission of the Registrar
September 5, Tuesday	Classes begin
September 6 thru 15 Wednesday thru Friday	Schedule changes accepted
October 13, Friday	Last day to drop 1st 7 week classes with a "W"
October 20, Friday	Mid-Semester — end 1st 7 week classes
November 10, Friday	Last day to drop a course
November 22, Wednesday	Thanksgiving Holiday after last class
November 27, Monday	Classes resume
December 12, Tuesday (Attend Thurs. classes)	Last day of classes
December 13, Wednesday	Reading Day
December 14, Thursday	Final examinations begin
December 21, Thursday	Last day of examination and semester

January Session 1979

January 2, Tuesday	Session begins
January 29, Monday	Session ends

Spring Semester 1979

January 29, Monday	Residence Halls open
January 29, Monday	Registration and Orientation for new students not previously registered
January 30, 31 Tuesday, Wednesday	Complete Registration and Change of Schedule for pre-registered continuing students — late registration by permission of the Registrar
February 1, Thursday	Classes begin
February 2 thru 13 Friday thru Tuesday	Schedule changes accepted
March 23, Friday	Last day to drop 1st 7 week classes with a "W"
March 30, Friday	Mid-Semester — end 1st 7 week classes
April 12, Thursday	Spring vacation begins after last class
April 23, Monday	Classes resume
April 27, Friday	Last day to drop a course
May 16, Wednesday	Last day of classes
May 17, Thursday	Reading Day
May 18, Friday	Final examinations begin
May 25, Friday	Last day of examination and semester
June 3, Sunday	Commencement

INCLEMENT WEATHER POLICY

In the event of inclement weather effecting the academic calendar or schedule, we broadcast the announcement over the major stations, WBAL, WFBR, WCBM, and Towson State University, WCVT, FM station, 89.7 KC.

Division of Continuing Studies

Fall Semester 1978

August 1, Tuesday	Final date for receipt for course request form in the Division of Continuing Studies for mail registration.
August 7, Monday	Absolute final date to pay fees in order to complete registration by mail. Payment must be in Financial Operations Office.
August 22, Tuesday AND August 23, Wednesday	Late (On Campus) Registration (University Union)
September 6, Wednesday	Evening Classes Begin
September 6, Wednesday; September 7, Thursday	Change of Schedule Period (Administration Bldg.) 1:00-4:00 p.m. AND 6:00-8:00 p.m.
September 8, Friday	1:00-4:00 p.m. ONLY!
September 19, Tuesday	Last day to change to/or from Pass Option.
September 19, Tuesday	Last day to drop classes with 80% refund of tuition.
October 3, Tuesday	Last day to drop classes with 50% refund of tuition.
October 13, Friday	Last day to drop 1st 7 week classes with a "W".
October 20, Friday	Mid-Semester — end of 1st 7 week classes.
November 10, Friday	Last day to drop a course without receiving a grade of "F" or "FX" on student's permanent record. Grade of "F" or "FX" can be removed only if course is repeated at Towson State University.
November 21, Tuesday	EVENING Thanksgiving vacation begins AFTER last class.
November 27, Monday	Classes resume.
December 15, Friday	Evening college and extension final exams begin.
December 21, Thursday	Evening colleges and extension final exams end. Semester ends.

Spring Semester 1979

January 2, Tuesday	Final date for receipt of course request form in the Division of Continuing Studies for mail registration.
January 8, Monday	Absolute final date to pay fees in order to complete registration by mail. Payment must be in Financial Operations Office.
January 23, Tuesday AND January 24, Wednesday	Late (On Campus) Registration (University Union)
February 5, Monday	Evening Classes Begin
February 7, Wednesday; February 8, Thursday;	Change of Schedule Period (Administration Bldg.) 1:00-4:00 p.m. AND 6:00-8:00 p.m.
February 9, Friday	1:00-4:00 p.m. ONLY!
February 16, Friday	Last day to change to/or from Pass Option.
February 16, Friday	Last day to drop classes with 80% refund of tuition.
March 2, Friday	Last day to drop classes with 50% refund of tuition.
March 23, Friday	Last day to drop 1st 7 week classes with a "W".
March 30, Friday	Mid-Semester — end of 1st 7 week classes.
April 12, Thursday	EVENING Spring vacation begins AFTER last class.
April 23, Monday	Classes resume.
April 27, Friday	Last day to drop a course without receiving a grade of "F" or "FX" on student's permanent record. Grade of "F" or "FX" can be removed only if course is repeated at Towson State University.
May 21, Monday	Evening college and extension final exams begin.
May 26, Saturday	Evening college and extension final exams end. Semester ends.

CAMPUS AND PARKING GUIDE TO TOWSON STATE UNIVERSITY

 Perking for the handicapped is located in lots: 2, S, 6, 9, 12, 17, & 21.

ing Guide to Departments g Department

Academic Affairs
Academic Systems Research
Admissions
Alumni Services
American Studies
Art
Art Gallery (University Union)
Art Gallery (Fine Arts Building)
Asian Arts Center
Athletics
Audiovisual Communications
Auxiliary Services
Biology
Black Cultural Center
Book Store
Box Offices
Business Administration
Business Services
Campus Planning
Central Receiving
Central Stores
Chemistry
Communication Arts and Sciences
Communications and Media Services
Concert Hall
Corporate and Foundation Programs
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Division of Continuing Studies
Economics
Education
Engineering Services
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Food Services
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Graduate Programs
Health Center
Health Science
History
Instructional Technology
International Studies
Maintenance
Maryland State Colleges Information Center
Mathematics
Medical Technology
Minority Relations
Modern Languages
Music
News and Publications
Nursing
Occupational Therapy
Office Services
Orientation
Parking Services
Personnel
Philosophy & Religion
Physical Education
Physical Plant
Physics
Placement
Police
Political Science
Post Office
President
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Psychology
Purchasing
Radio Station
Recreation Center
Registrar
Residence
Roberts' Room

L Science Education
M Social Science
M Sociology
R Special Services
R Student Government Association
U Student Services
X Study Skills Support Center

V Theatre
V Theatre Arts
R Towerlight
T Transportation
U Veterans Affairs
U Vice-Presidents
I Women's Center

BUILDING AND ENTRANCE GUIDE

Building (Map Key)

Administration (U)
Burdick Hall (S)
Cook Library (I)
Dining Hall (CC)
Dowell Health Center (G)
Fine Arts Center (V)
General Services (T)
Glen Esk (F)
Hawkins Hall (X)
Lecture Hall (Y)
Lida Lee Tall Learning Resources Center (O)
Linthicum Hall (M)
Media Center (J)
Newell Hall (C)
Power Plant (H)
Prettyman Hall (E)
Psychology Building (W)
Residence Tower (P)
Richmond Hall (B)
Scarborough Hall (D)
Smith Hall (L)
Stephens Hall (A)
Towson Center (Z)
Towson Club (ZZZ)
Towson Stadium (ZZ)
University Union (R)
Van Bokkelen Hall (K)
Ward Hall (N)
West Hall (O)

Entrance

Direct access from Osler Drive
Towsontown Boulevard or Osler Drive
North York Road
North York Road
North York Road
Direct access from Osler Drive
Direct access from Towsontown Blvd.
North York Road
Burke Avenue
Burke Avenue
Towsontown Boulevard
Burke Avenue
South York Road
North York Road
North York Road
North York Road
Burke Avenue
Burke Avenue
South York Road
North York Road
South York Road
South York Road
Direct access from Osler Drive
Direct access from Osler Drive
Direct access from Osler Drive
Towsontown Boulevard or Osler Drive
South York Road
Burke Avenue
Burke Avenue

PARKING AREAS FACULTY & STAFF

FACULTY & STAFF	STUDENTS
*1 8	6 14
2 *9	7 15
3 10	11 16
4 11	13 18
*S *12	19
17	20
21	21

*Card controlled parking gates in operation during regular school hours. Consult signs at each gate for exact operating hours.



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